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AVE/VAS I: 25 MB SOUNDING DATA

By Meta E. Sienkiewicz  
Texas A&M University  
College Station, Texas 77843

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## 16. ABSTRACT

This report describes the rawinsonde sounding program for the AVE/VAS I (shakedown) experiment and presents tabulated data at 25-mb intervals for the 13 special rawinsonde stations and 1 National Weather Service station participating in the experiment. Soundings were taken at 1200 and 1800 GMT on February 6, 1982, and at 0000 CMT on February 7, 1982. The method of processing soundings is discussed briefly, estimates of the RMS errors in the data are presented, and an example of contact data is given. Termination pressures of soundings are tabulated, as are observations of ground temperature at a depth of 2 cm.

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OF POOR QUALITY

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# DATA FROM THE AVE/VAS FIELD EXPERIMENT OF POOR QUALITY

AVE/VAS I : 25 MB SOUNDING DATA

by

Meta Sienkiewicz  
Texas A&M University <sup>1</sup>  
College Station, Texas

## 1. Introduction

The AVE/VAS field experiment was conducted on five operational days during the Spring of 1982. The dates and observation times for this experiment are given in Table 1.

This report is primarily a data document containing rawinsonde data taken in a special meso- $\beta$ -scale rawinsonde network for the first (shakedown) day, AVE/VAS I (6-7 February, 1982). A description of the data processing method, together with the FCRTRAN program for computing soundings and an error analysis, have been presented by Fuelberg (1974). A description of the synoptic conditions, observed weather, selected satellite photographs, and summaries of severe and unusual weather will be presented in a separate report.

## 2. AVE/VAS I (Shakedown)

Thirteen special rawinsonde stations and one National Weather Service station participated in AVE/VAS I. A list of the stations is presented in Table 2 and their locations are shown in Fig. 1. Table 3 gives locations and station heights in the special station network. Soundings were taken at three times: February 6, 1982 at 1200 and 1800 GMT, and February 7, 1982, at 0000 GMT.

## 3. Rawinsonde Data

3.1 Methods of Processing. All processing of the data (coding, error checking, and final computations) was performed at Texas A&M University.

The procedure used to compute the soundings is the same as that used for previous AVEs and is described by Fuelberg (1974). All keypunched input

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<sup>1</sup>Research Associate

Table 1. Listing of operational days and sounding times in the AVE/VAS field experiment.

Operational Day (Shakedown *)	Dates	Observation Times
AVE/VAS I	6-7 February 1982	2/6 - 12, 18 2/7 - 00
AVE/VAS II	6-7 March 1982	3/6 - 12, 15, 18, 21 3/7 - 00, 03, 06, 12**
AVE/VAS III	27-28 March 1982	3/27 - 12, 15, 18, 21 3/28 - 00, 03, 06, 12**
AVE/VAS IV	24-25 April 1982	4/24 - 12, 15, 18, 21 4/25 - 00, 03, 06, 12**
AVE/VAS V	1-2 May 1982	5/1 - 12, 15, 18, 21 5/2 - 00, 03, 06, 12**

\* Meso-6 network only on shakedown

\*\* Final 1200 GMT sounding at NWS stations only

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Table 2. Rawinsonde stations participating in the AVE/VAS field experiment..

Station Number	Location
<u>Special Stations</u>	
001	Crowell, TX
002	Henrietta, TX
003	Durant, OK
004	Throckmorton, TX
005	Denton, TX
006	Abilene, TX
007	Ennis, TX
008	Brownwood, TX
009	Hewitt, TX
010	Menard, TX
011	Burnet, TX
012	College Station, TX
100	Ft. Hood, TX
<u>NWS Stations</u>	
260	Stephenville, TX

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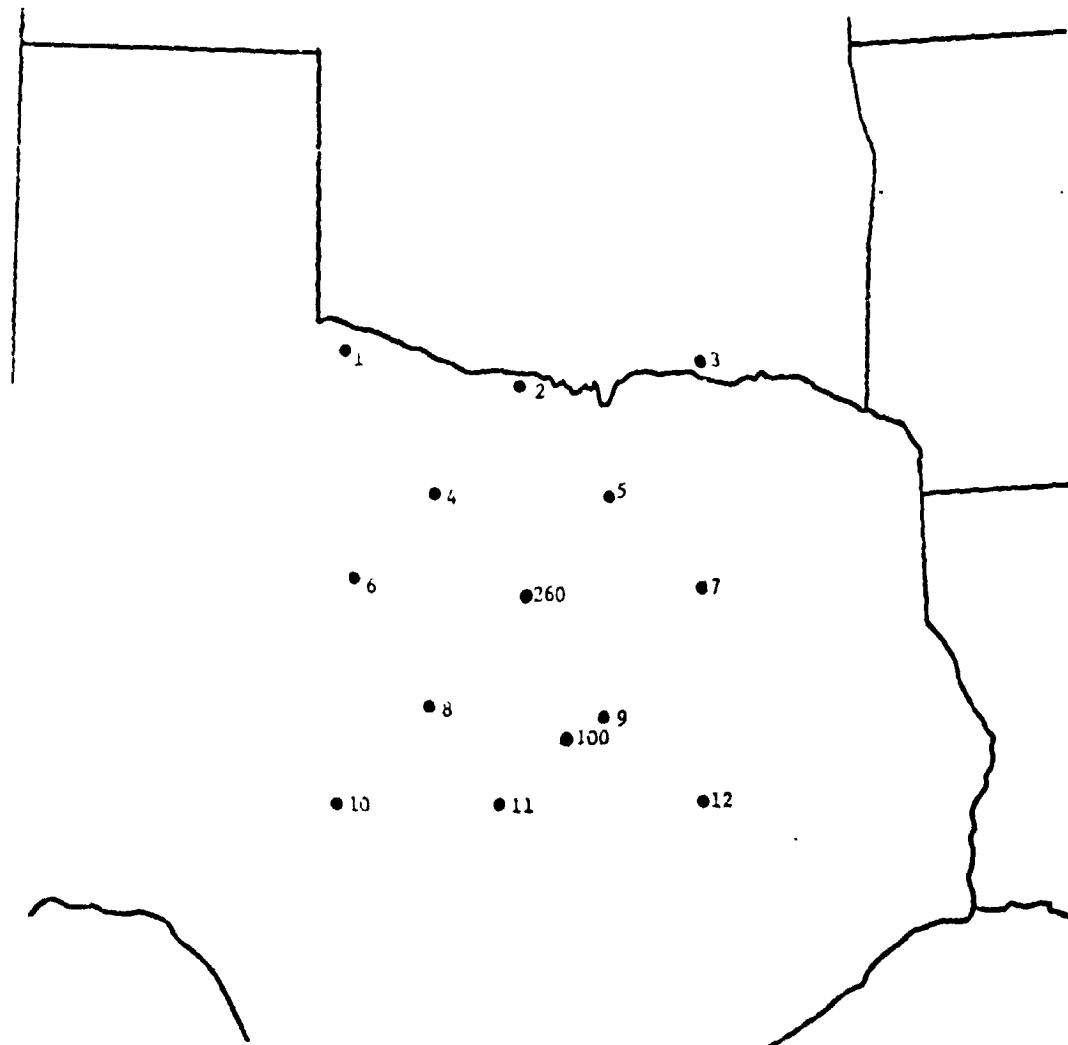


Figure 1. Location of rawinsonde stations participating in AVE/VAS I.

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Table 3. Locations of special rawinsonde stations  
participating in AVE/VAS I.

Station		Height(m)	Latitude( $^{\circ}$ N)	Longitude( $^{\circ}$ W)
Crowell, TX	(001)	450	33.98	99.71
Henrietta, TX	(002)	288	33.94	98.22
Durant, OK	(003)	211	33.94	96.40
Throckmorton, TX	(004)	405	33.19	99.18
Denton, TX	(005)	193	33.20	97.19
Abilene, TX	(006)	532	32.43	99.69
Ennis, TX	(007)	150	32.33	96.66
Brownwood, TX	(008)	502	31.71	99.10
Hewitt, TX	(009)	184	31.48	97.20
Menard, TX	(010)	588	30.94	99.81
Burnet, TX	(011)	387	30.74	98.23
College Station, TX	(012)	79	30.64	96.47
Ft. Hood, TX	(100)	289	31.10	97.40
Stephenville, TX	(260)	399	32.22	98.18

data were checked for errors by calculating centered differences on the input data. Additional checks included centered differences on computed winds and checks on lapse rates of computed temperatures and dew points. Constant pressure analyses were made using meso- $\beta$ -network data and compared to NWS data received on facsimile and teletype. Suspected errors were checked against the original strip chart information and appropriate corrections made.

The final rawinsonde data set of AVE/VAS I (shakedown) consists of data computed at each pressure contact, while winds were computed from the available 30- or 60-s interval data by means of centered finite differences, and subsequently interpolated to each contact or 25-mb level.

It should be noted that humidity values, including dew point temperatures, were computed only at temperatures above  $-40^{\circ}\text{C}$ ; at temperatures below  $-40^{\circ}\text{C}$ , humidity values are missing and are indicated by a field of nines (e.g., 99.9 or 999.9). Moisture values were computed if the relative humidity exceeded 1%. If the value was below 1%, it was set equal to 1% and used in the computation of other moisture variables. The humidity equations described by Fuelberg (1974) were used in processing data from sondes using the old-type hygristors; computations for sondes with new carbon hygristors were performed using humidity equations currently in use by the National Weather Service.

**3.2 Accuracy Estimates.** Estimates of the r.m.s. errors in the wind and thermodynamic quantities of the AVE/VAS I data are the same as those for all previous AEs and are given by Fuelberg (1974). The error estimates for thermodynamic variables are presented in Table 4.

The r.m.s. errors for wind speed and direction are difficult to describe since they are a function of tracking geometry and other factors. Maximum r.m.s. errors for winds (speed and direction) computed at 30-s intervals (based on the worst geometric tracking configuration) for 10 and 40 degree elevation angles are presented in Table 5. The accuracy of the wind data at pressure contacts at 25-mb intervals is greater than that stated for the 30-s winds because of the added smoothing, and interpolation performed. In addition, the errors stated for the 30-s wind were maxima for the stated conditions.

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Table 4. Estimates of the RMS errors in thermodynamic quantities of AVE/VAS rawinsonde data.

Parameter	Approximate RMS Error
Temperature	0.5° $\text{C}$ (Fuelberg's value is 1° $\text{C}$ )
Pressure	1.3 mb from surface to 400 mb; 1.1 mb between 400 and 100 mb; 0.7 mb between 100 and 10 mb.
Humidity	10 percent
Pressure Altitude	10 gpm at 500 mb; 20 gpm at 300 mb; 50 gpm at 50 mb.

Table 5. Estimates of RMS errors in AVE/VAS rawinsonde wind data.

<u>Pressure</u>	<u>RMS errors (m s<sup>-1</sup>) in speed</u>		<u>RMS errors (deg) in direction</u>	
	<u>10 deg el</u>	<u>40 deg el</u>	<u>10 deg el</u>	<u>40 deg el</u>
700	2.5	0.5	9.5	1.3
500	4.5	0.8	13.4	1.8
300	7.8	1.0	18.0	2.5

3.3 Presentation of Data. An example of AVE/VAS I contact data is given in Table 6, with the explanation of column headings in Table 7. The first line of data for time 0.0 minutes is surface data. A series of nines is used to indicate missing data. The three numbers in the upper right-hand corner are the number of pressure levels computed, the minimum pressure obtained (mb), and an angle identifier with the value of 0 for 30-s angle input and 1 for 1-min angle input.

Winds based on low elevation angles are denoted by asterisks. One asterisk denotes elevation angles less than  $10^{\circ}$  but greater than  $6^{\circ}$ , while two asterisks denote angles less than  $6^{\circ}$ . These levels have been specially noted because caution must be exercised in the use of the data; winds computed at low elevation angles are subject to rather large r.m.s. errors.

Levels containing temperatures or times which have been interpolated are also denoted by asterisks. Missing temperatures and times at contacts are replaced by linear interpolation. A limit was set on this interpolation so that it would not extend for more than five contact levels. Interpolation over deeper layers could lead to inaccurate temperatures and geopotential heights, especially if data were missing in a surface inversion or near the tropopause. The deeper layers of missing data which exceed the five contact limit are denoted by two asterisks.

The contact data interpolated to 25-mb intervals are presented in Appendices I and II. The column headings are identical to those used for the contact data and are described in Table 7. The soundings are arranged by station number beginning with the special stations, and appear in ascending order by time for each station. The first line of each sounding is surface data, followed by data from 1,000 to 25 millibars (or to termination) successively. For the 25-mb levels where the pressure is greater than the surface pressure, missing data (nines) are indicated for each quantity. This is also done for 25-mb levels above the sounding termination point.

Table 8 contains a listing of actual sounding launch times and termination pressures for the special soundings taken for AVE/VAS I.

3.4 Soundings with Abnormal Characteristics. The sounding data collected during AVE/VAS I are generally of good quality following the processing and rigorous error checking. It is difficult to determine whether any

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Table 6. Example of AVE/VAS contact sounding data.

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG.  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG.  
BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

Table 6. Continued.

STATION NO. 1 CROWELL, TEXAS									
6 FEBRUARY 1982									
1723 GMT									
TIME	CNTCT	HEIGHT GPM	PRES IN	TEMP DG C	DEW PT DG C	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	E POT T DG K
MIN									
15 7	53 0	507 5	549 0	-11.0	-22.8	264 6	32 7	2 9	314 7
16 1	54 0	5160 0	541 0	-12.2	-24.0	264 5	33 3	3 2	314 4
16 6	55 0	5286 1	532 0	-13.3	-25.5	263 1	33 0	3 1	314 2
17 0	56 0	5358 7	525 0	-14.4	-26.7	262 1	33 5	3 1	313 6
17 4	57 0	5519 8	516 0	-14.8	-16.3	260 9	37 2	3 1	318 6
17 8	58 0	5637 9	508 0	-15.8	-17.8	259 8	38 1	3 1	318 6
18 2	60 0	590 0	500 0	-16.8	-18.8	257 8	31 9	3 1	320 3
18 6	61 0	484 0	492 0	-17.8	-19.8	259 8	35 2	3 1	312 2
19 0	62 0	492 0	476 0	-18.3	-19.3	261 8	40 7	3 1	313 9
19 4	62 0	6251 3	468 0	-20.4	-21.4	262 5	43 1	4 0	318 7
20 0	64 0	6379 3	460 0	-22.0	-22.6	263 9	55 0	5 7	319 4
20 4	65 0	6507 6	452 0	-22.7	-22.7	263 8	56 5	5 7	314 3
20 8	66 0	6612 3	445 0	-23.0	-22.9	264 8	62 7	5 7	315 4
21 2	67 0	6755 0	437 0	-24.7	-24.7	264 0	45 3	3 0	318 8
21 6	68 0	6689 6	429 0	-24.7	-25.4	257 8	35 4	3 4	318 8
22 0	69 0	7009 3	422 0	-25.4	-25.8	257 5	39 4	3 8	318 8
22 4	70 0	7148 1	414 0	-25.8	-30.6	259 3	44 1	4 3	319 7
22 8	71 0	7271 1	407 0	-28.9	-31.6	261 6	49 4	4 8	319 8
23 2	72 0	7397 2	400 0	-28.0	-31.1	261 6	50 4	5 0	319 8
23 6	73 0	7542 6	392 0	-27.9	-34.4	262 0	50 9	5 7	320 7
24 0	74 0	7672 1	385 0	-28.4	-34.7	260 9	48 0	4 8	321 6
24 4	75 0	7784 4	379 0	-29.1	-35.7	258 1	48 0	4 8	322 9
24 8	76 0	7936 3	371 0	-30.7	-36.2	257 0	53 8	5 2	321 3
25 2	77 0	8071 3	364 0	-31.8	-37.1	255 7	57 9	5 2	322 0
25 6	78 0	8208 4	357 0	-32.5	-38.8	254 2	59 3	5 7	322 0
26 0	79 0	8327 9	352 0	-33.3	-39.8	252 6	56 3	5 3	323 4
26 4	80 0	8469 7	344 0	-34.0	-39.5	252 6	56 3	5 3	322 4
26 8	81 0	8613 6	337 0	-34.5	-41.3	252 6	54 2	4 9	323 4
27 2	82 0	8739 2	331 0	-35.3	-42.0	251 0	52 0	4 7	326 8
27 6	83 0	8867 6	324 0	-36.2	-42.9	251 0	59 5	5 2	327 3
28 0	84 0	890 0	318 0	-37.3	-44.0	251 2	64 2	5 7	328 0
28 4	85 0	9148 6	312 0	-38.3	-44.0	252 2	64 3	6 1	328 5
28 8	86 0	9304 3	305 0	-39.4	-45.0	253 1	59 5	6 1	329 1
29 2	87 0	940 1	299 0	-40.9	-49.9	253 0	52 7	17 3	328 3
29 6	88 0	9577 9	293 0	-41.9	-50.9	254 0	48 3	13 3	328 6
30 0	89 0	9659 7	287 0	-43.1	-51.4	254 0	47 7	12 7	328 7
30 4	90 0	9859 7	261 0	-44.2	-52.1	254 7	44 0	12 3	329 0
31 2	91 0	99 0 0	251 0	-45.0	-52.1	254 7	44 0	12 3	330 8
31 6	92 0	99 0 1	276 0	-44.2	-52.1	249 9	44 0	12 3	332 9
32 0	93 0	10127 2	270 0	-44.8	-52.1	251 5	53 3	16 9	332 9
32 4	94 0	10177 3	264 0	-45.7	-53.3	254 3	76 7	20 7	334 3
32 8	95 0	10130 2	258 0	-46.3	-53.3	254 9	90 3	87 2	334 3
33 2	96 0	10559 0	253 0	-47.7	-53.3	254 1	90 6	87 2	334 3
33 6	97 0	10777 9	247 0	-48.9	-53.3	251 0	70 6	67 0	334 5
34 0	98 0	109 0 0	241 0	-49.7	-53.3	245 3	47 7	70 2	335 7

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG

\*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED

\*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

\*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

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Table 6. Continued.

TIME MIN	CRNT CT	HEIGHT CPM	PRES MB	TEMP DG C	DHN PRT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POW T DG K		E PRT DG K	M RTO CM/KG	BH PCT	RANGE PM	AZ DG
										143	47					
35.2	88.0	11016.0	236.0	-51.2	99.9	240.6	39.6	34.5	19.4	335.6	5.6	999.9	99.9	999.9	73.0	79
35.7	99.0	11154.8	231.0	-52.3	99.9	243.2	52.1	49.5	22.5	325.9	7.5	999.9	99.9	999.9	74.2	79
36.1	100.0	11286.1	226.0	-53.2	99.9	247.1	74.3	62.4	22.8	321.6	9.5	999.9	99.9	999.9	75.5	79
36.5	101.0	11428.9	220.0	-54.5	99.9	250.4	92.8	86.8	34.5	337.1	1.1	999.9	99.9	999.9	77.5	78
37.0	102.0	11568.0	215.0	-54.8	99.9	252.7	146.1	139.8	43.3	338.9	2.4	999.9	99.9	999.9	81.1	78
37.4	103.0	11707.2	210.0	-55.0	99.9	252.2	145.0	147.5	47.6	344.2	5.5	999.9	99.9	999.9	85.2	78
37.8	104.0	11822.8	205.0	-55.2	99.9	248.0	113.9	105.6	42.7	345.5	2.2	999.9	99.9	999.9	89.8	78
38.3	105.0	12081.6	200.0	-55.4	99.9	240.0	69.2	39.4	34.1	348.1	2.2	999.9	99.9	999.9	91.6	77
38.7	106.0	12211.9	196.0	-55.3	99.9	230.5	44.9	24.7	24.7	350.6	6.1	999.9	99.9	999.9	92.6	77
39.2	107.0	12378.7	191.0	-55.2	99.9	239.7	66.1	59.8	59.8	357.1	1.1	999.9	99.9	999.9	95.6	76
39.7	108.0	12550.1	186.0	-55.2	99.9	243.0	52.3	58.9	39.0	359.6	6.0	999.9	99.9	999.9	97.1	76
40.1	109.0	12890.7	182.0	-55.2	99.9	242.3	55.7	57.4	29.2	361.5	2.5	999.9	99.9	999.9	100.3	76
40.5	110.0	12870.6	177.0	-55.2	99.9	239.3	46.3	38.6	26.4	362.4	1.1	999.9	99.9	999.9	101.3	76
41.0	111.0	13017.7	173.0	-55.3	99.9	235.2	46.1	39.0	22.6	365.9	1.1	999.9	99.9	999.9	104.3	75
41.5	112.0	13206.1	168.0	-55.4	99.9	249.2	46.1	40.0	22.6	366.5	1.1	999.9	99.9	999.9	104.4	75
42.0	113.0	13220.5	164.0	-55.4	99.9	251.9	87.7	87.7	28.1	368.5	5.5	999.9	99.9	999.9	104.5	75
42.5	114.0	13517.9	160.0	-55.6	99.9	252.9	97.7	84.8	19.3	369.5	4.5	999.9	99.9	999.9	109.2	75
43.0	115.0	13678.9	156.0	-55.6	99.9	252.6	84.8	72.7	27.1	371.4	7.2	999.9	99.9	999.9	110.4	75
43.5	116.0	13843.9	152.0	-55.6	99.9	248.6	12.0	19.7	7.2	372.2	2.0	999.9	99.9	999.9	110.6	75
44.0	117.0	14043.2	148.0	-55.6	99.9	251.5	12.0	8.0	24.1	374.2	1.1	999.9	99.9	999.9	110.8	75
44.5	118.0	14223.0	143.0	-55.6	99.9	243.0	21.5	20.0	30.2	376.1	1.1	999.9	99.9	999.9	111.0	75
45.0	119.0	14365.1	140.0	-55.7	99.9	254.9	15.7	7.0	31.2	378.5	1.1	999.9	99.9	999.9	111.2	75
45.5	120.0	14547.4	136.0	-55.7	99.9	255.0	53.7	53.7	53.7	380.5	1.1	999.9	99.9	999.9	111.4	75
46.0	121.0	14734.1	132.0	-55.9	99.9	255.0	55.0	49.5	47.8	382.0	1.1	999.9	99.9	999.9	111.5	75
46.5	122.0	14925.4	128.0	-56.0	99.9	255.0	51.5	43.9	43.9	382.9	1.1	999.9	99.9	999.9	111.6	75
47.0	123.0	15071.6	125.0	-56.0	99.9	255.0	51.5	43.9	43.9	385.7	1.1	999.9	99.9	999.9	111.7	75
47.5	124.0	15221.1	121.0	-56.0	99.9	255.0	51.5	43.9	43.9	386.4	1.1	999.9	99.9	999.9	112.0	75
48.0	125.0	15425.0	118.0	-56.0	99.9	255.0	52.0	44.0	44.0	388.4	1.1	999.9	99.9	999.9	112.2	75
48.5	126.0	15612.0	114.0	-56.0	99.9	255.0	52.0	44.0	44.0	389.4	1.1	999.9	99.9	999.9	112.3	75
49.0	127.0	15758.5	111.0	-56.0	99.9	255.0	52.0	44.0	44.0	390.6	1.1	999.9	99.9	999.9	112.5	75
49.5	128.0	15894.6	105.0	-56.0	99.9	255.0	52.0	44.0	44.0	393.3	1.1	999.9	99.9	999.9	112.6	75
50.0	129.0	16192.6	104.0	-56.7	99.9	255.0	56.2	43.9	43.9	395.4	1.1	999.9	99.9	999.9	112.7	75
50.2	130.0	16166.8	101.0	-56.7	99.9	255.0	57.5	43.9	43.9	397.1	1.1	999.9	99.9	999.9	112.8	75
50.5	131.0	16249.7	98.0	-56.8	99.9	255.0	54.8	43.9	43.9	398.5	1.1	999.9	99.9	999.9	112.9	75
51.0	132.0	16135.3	95.0	-56.9	99.9	255.0	56.0	34.9	34.9	399.9	1.1	999.9	99.9	999.9	113.0	75
51.2	133.0	16026.4	92.0	-56.9	99.9	255.0	56.0	34.9	34.9	402.8	1.1	999.9	99.9	999.9	113.1	75
51.7	134.0	16124.6	89.0	-56.9	99.9	255.0	56.0	34.9	34.9	404.5	1.1	999.9	99.9	999.9	113.2	75
52.4	135.0	16230.1	85.0	-56.9	99.9	255.0	56.0	34.9	34.9	405.9	1.1	999.9	99.9	999.9	113.3	75
53.0	136.0	16345.2	83.0	-56.9	99.9	255.0	56.0	34.9	34.9	407.3	1.1	999.9	99.9	999.9	113.4	75
53.4	137.0	16478.5	80.0	-56.9	99.9	255.0	56.0	34.9	34.9	408.7	1.1	999.9	99.9	999.9	113.5	75
54.0	138.0	16522.1	76.0	-56.9	99.9	255.0	56.0	34.9	34.9	410.6	1.1	999.9	99.9	999.9	113.6	75
54.6	139.0	16639.8	73.0	-56.9	99.9	255.0	56.0	34.9	34.9	412.5	1.1	999.9	99.9	999.9	113.7	75
55.2	140.0	16666.6	70.0	-56.9	99.9	255.0	56.0	34.9	34.9	414.9	1.1	999.9	99.9	999.9	113.8	75
55.8	141.0	16878.3	67.0	-56.9	99.9	255.0	56.0	34.9	34.9	416.8	1.1	999.9	99.9	999.9	113.9	75
56.6	142.0	16849.3	67.0	-56.9	99.9	255.0	56.0	34.9	34.9	418.6	1.1	999.9	99.9	999.9	113.9	75

• BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG.

•• BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED

••• BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG.

•••• BY TEMP MEANS MISSING DATA SITUATION EXCEEDS 5 CONTACTS

Table 6. Concluded.

TIME MIN	CMCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MIX RTO GM/KG	RH PCT	RANGE KM	AZ DG
58.0	143.0	18134.2	84.0	-60.7	99.9	255.0	11.4°	11.0	2.9	466.4	999.9	99.9	999.9	138.7	75
58.6	144.0	18331.6	82.0	-61.0	99.9	75.0	7.5°	-7.3	-2.0	459.9	999.9	99.9	999.9	138.6	75
59.4	145.0	19639.6	59.0	-61.2	99.9	75.0	20.0°	-19.3	-5.2	476.2	999.9	99.9	999.9	139.0	75
59.9	146.0	19852.1	57.0	-64.4	99.9	75.0	37.0°	-35.7	-9.6	473.6	999.9	99.9	999.9	137.2	75
60.6	147.0	20182.5	54.0	-64.6	99.9	75.0	42.3	-40.8	-10.9	480.5	999.9	99.9	999.9	135.2	75
61.4	148.0	20413.3	52.0	-64.1	99.9	99.9	99.9	99.9	99.9	487.1	999.9	99.9	999.9	999.9	999
62.2	149.0	20777.4	49.0	-63.9	99.9	99.9	99.9	99.9	99.9	495.9	999.9	99.9	999.9	999.9	999
62.8	150.0	21035.4	47.0	-59.6	99.9	99.9	99.9	99.9	99.9	511.6	999.9	99.9	999.9	999.9	999

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Table 7. Explanation of column headings of tabulated sounding data for AVE/VAS I.

TIME (MIN)		Time after balloon release.
CNTCT		Contact number.
HEIGHT (GPM)		Height of corresponding pressure surface in geopotential meters.
PRES (MB)		Pressure in millibars.
TEMP (DG C)		Ambient temperature in degrees Celsius. NOTE: An asterisk indicates that time from release and/or temperature were linearly interpolated.
DEW PT (DG C)		Dew-point temperature in degrees Celsius.
DIR (DG)		Wind direction measured clockwise from true north and is the direction from which the wind is blowing.
SPEED (M/SEC)		Scalar wind speed in meters per second. NOTE: An asterisk indicates that wind quantities are based on an elevation angle that is between $10^{\circ}$ and $6^{\circ}$ . A double asterisk indicates that the elevation angle is less than $6^{\circ}$ .
U COMP (M/SEC)		The E-W wind component, positive toward the east and negative toward the west.
V COMP (M/SEC)		The N-S wind component, positive toward the north and negative toward the south.
POT T (DG K)		Potential temperature in degrees Kelvin.
E POT T (DG K)		Equivalent potential temperature in degrees Kelvin.
MX RTO (GM/KG)		Mixing ratio in grams per kilogram.
RH (PCT)		Relative humidity in percent.
RANGE (KM)		Distance balloon is from release point along a radius vector.
AZ (DG)		Direction toward balloon measured clockwise from true north.

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OF PRESSURE

Table 8. Launch time (GMT) and termination pressure (mb) for soundings taken for AVE/VAS I.

		1723 47 mb	2306 102 mb
Crowell, TX	*		
Henrietta, TX	1157 79 mb	1700 61 mb	*
Durant, OK	**	**	**
Throckmorton, TX	**	*	*
Denton, TX	*	*	2302 18 mb
Abilene, TX	**	**	2310 90 mb
Ennis, TX	1145 298 mb	1704 462 mb	2300 107 mb
Brownwood, TX	*	1722 13 mb	*
Hewitt, TX	*	1713 397 mb	2300 12 mb
Menard, TX	1225 11 mb	1714 19 mb	2318 57 mb
Burnet TX	*	1712 11 mb	2320 13 mb
College Station, TX	1401 213 mb	1701 200 mb	2338 164 mb
Ft. Hood, TX	1118 560 mb	1718 386 mb	2305 353 mb
Stephenville, TX	***	1715 11 mb	***

\* No data available due to equipment problems.

\*\* Operators unable to reach station in time to make the launch.

\*\*\* Sounding not available.

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unresolved errors remain in the data because so few complete soundings were taken.

Six soundings had missing temperature data for more than five consecutive contacts. These soundings along with the extent of missing data are listed in Table 9. Temperatures in these layers were not computed since linear interpolation was considered to be inaccurate. Geopotential heights could not be computed above these layers of missing temperature.

Appendix II contains a second copy of the affected soundings with temperatures interpolated through the missing data layers. Computed geopotential heights in these soundings should be used with caution (if at all), and other derived quantities (wind direction, speed, u- and v-components, and sonde range and azimuth) should be carefully considered before use.

4. Other Data

Ground temperatures at a depth of 2 cm (approx.) were taken at special stations maintained by TAMU. These measurements were taken immediately after the sounding launch. These temperatures are presented in Table 10.

Table 9. AVE/VAS I soundings with data missing for more than five successive contacts.

Station		Date/GMT	Explanation
Henrietta, TX	(002)	6/1157	Missing data 786-514 mb
Abilene, TX	(006)	6/2310	Missing data 179-133 mb, 115-99 mb
Hewitt, TX	(009)	6/1713	Missing data surface-863 mb
Menard, TX	(010)	6/1225 6/2318	Missing data surface-764 mb Missing data surface-363 mb
College Station, TX	(012)	6/2338	Missing data surface-939 mb

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Table 10. Ground temperatures ( $^{\circ}$ C) at a depth of 2 cm at TAMU special rawinsonde stations on February 6-7 1982.

Station	Time (GMT)		
	12	18	00
Crowell, TX	--	0.0	0.2
Henrietta, TX	--	0.9	2.9
Durant, OK	--	--	--
Throckmorton, TX	--	--	--
Denton, TX	--	-0.1	0.1
Abilene, TX	--	--	2.3
Ennis, TX	-4.0	-0.3	2.8
Brownwood, TX	--	1.9	3.9
Hewitt, TX	-5.0	-3.7	-0.7
Menard, TX	-5.0	-2.3	-0.5
Burnet, TX	0.9	1.1	4.0
College Station, TX	1.3	4.3	4.0

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Jake Canglose, who provided expert guidance for the five TAMU technicians. Their efforts in maintaining, repairing, and sometimes even rebuilding the equipment used in the special network made the collection of this sounding data possible.

Dr. James R. Scoggins, who directed the field program conducted by TAMU, and the forty student workers who participated in the field work. These people risked life and limb; facing up to icy roads, adverse weather conditions, and unfriendly local law enforcement officials in order to collect the sounding data presented in this report.

Reference

Fuelberg, H.E. 1974: Reduction and error analysis of the AVE II pilot experiment data. NASA Contractor Report CR-120496. Marshall Space Flight Center, Alabama, 140 pp.

**APPENDIX I**  
**AVE/VAS I Rawinsonde Data**  
**Presented at 25-mb Intervals**

ORIGINAL RECORD  
OF POOR QUALITY

STATION NO. 1  
CROWELL, TEXAS  
6 FEBRUARY 1962  
1723 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RATIO GM/RG	RH PCT	AZ KM	DG	
0.0	99.9	449.8	986.6	-5	0	-16	7	350.0	0	0	269.2	271.6	0.9	33.0	0	0
0.0	99.9	544.4	1000.0	-5	0	-16	7	350.0	0	0	269.2	271.6	0.9	33.0	0	0
0.0	99.9	746.8	975.0	-8	0.5	-16	7	350.0	0	0	269.2	271.6	0.9	33.0	0	0
0.0	99.9	1165.2	900.0	-10	5	-21	3	290.6	14.1	13.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	1385.2	875.0	-10	5	-19	9	265.7	1.0	-1.0	268.3	270.8	0.9	33.0	0	0
0.0	99.9	1612.4	825.0	-10	5	-18	6	265.7	4.0	-1.0	268.3	270.8	0.9	33.0	0	0
0.0	99.9	2135.5	1845.0	-10	5	-17	2	265.7	3.3	-1.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	2345.2	2080.0	-10	5	-14	3	337.6	2.5	-1.6	268.3	270.8	0.9	33.0	0	0
0.0	99.9	2554.7	2338.2	-10	5	-14	3	310.2	10.4	13.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	2862.7	725.0	-10	5	-16	6	265.7	3.3	-1.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	3141.0	700.0	-10	5	-17	6	265.7	2.2	-1.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	3356.2	3430.0	-10	5	-18	6	265.7	1.2	-1.2	268.3	270.8	0.9	33.0	0	0
0.0	99.9	3538.9	3729.1	-10	5	-13	7	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	3841.2	4038.4	-10	5	-14	3	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	4144.3	4359.0	-10	5	-15	4	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	4450.5	4680.0	-10	5	-16	5	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	4553.6	5033.6	-10	5	-14	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	4757.5	5235.7	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	4957.5	5388.7	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	5157.5	5757.5	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	5359.0	6255.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	5559.0	6850.5	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	5759.0	7397.2	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	5959.0	7660.4	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	6159.0	8138.2	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	6359.0	8663.6	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	6559.0	9147.8	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	6759.0	9604.4	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	6959.0	1004.4	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	7159.0	1132.4	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	7359.0	1105.2	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	7559.0	1208.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	7759.0	1294.4	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	7959.0	82.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	8159.0	1507.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	8359.0	1642.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	8559.0	1815.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	8759.0	2065.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	8959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	9159.0	110.5	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	9359.0	123.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	9559.0	130.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	9759.0	139.0	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	9959.0	148.7	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	10159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	10359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	10559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	10759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	10959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	11159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	11359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	11559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	11759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	11959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	12159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	12359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	12559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	12759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	12959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	13159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	13359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	13559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	13759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	13959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	14159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	14359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	14559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	14759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	14959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	15159.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	15359.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	15559.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	15759.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	0
0.0	99.9	15959.0	99.9	-10	5	-17	6	265.7	0.4	-0.4	268.3	270.8	0.9	33.0	0	

STATION NO. CROWELL, TEXAS 1

6 FEBRUARY 1982

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE IS  
OF POOR QUALITY

TIME MIN	CRNT CTY	WEIGHT GPM	PRES INH	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POI I DG K	POI I DG K	PH PCT	RANGE IN	AZ DG
0 0	9 3	267 5	1005 0	-10 5	-11 4	315 0	5 0	3 5	3 5	262 3	264 7	0 9	0 0	0 0
0 2	9 6	325 6	1000 0	-13 6	-13 6	399 9	99 9	99 9	99 9	261 8	264 2	0 9	999 9	999 9
0 8	12 1	519 4	975 0	-15 9	-15 9	399 9	99 9	99 9	99 9	261 4	262 7	0 8	52 2	999 9
1 1	14 4	716 4	925 0	-12 7	-20 1	399 9	99 9	99 9	99 9	262 0	264 1	0 6	84 8	999 9
1 6	16 6	919 2	900 0	-12 7	-24 9	399 9	99 9	99 9	99 9	268 8	265 6	0 5	35 4	999 9
1 9	18 0	1128 2	875 0	-16 8	-28 3	399 9	99 9	99 9	99 9	268 1	267 9	0 5	25 6	999 9
2 2	21 3	1569 9	852 0	-22 3	-25 2	399 9	99 9	99 9	99 9	262 9	265 5	0 5	25 6	999 9
2 5	23 6	1621 9	821 0	-21 1	-21 1	399 9	99 9	99 9	99 9	262 3	264 1	0 4	21 7	999 9
2 8	26 1	199 9	821 0	-2 4	-2 4	399 9	99 9	99 9	99 9	264 1	264 1	0 4	55 5	999 9
3 1	31 4	32 9	93 9	-35 7	-35 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
3 4	34 2	32 9	93 9	-35 7	-35 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
3 7	36 6	32 9	93 9	-35 7	-35 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
4 1	41 1	99 9	97 0	-9 7	-9 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
4 4	44 4	99 9	97 0	-9 7	-9 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
4 7	47 7	99 9	97 0	-9 7	-9 7	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
5 0	51 0	525 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
5 3	54 3	525 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
5 6	57 6	502 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
5 9	61 9	502 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
6 2	65 2	502 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
6 5	68 5	66 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
6 8	71 8	66 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
7 1	75 1	76 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
7 4	78 4	60 3	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
7 7	81 7	64 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
8 0	85 0	64 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
8 3	88 3	65 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
8 6	91 6	70 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
8 9	94 9	72 4	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
9 2	98 2	76 6	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
9 5	101 5	80 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
9 8	104 8	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
10 1	108 1	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
10 4	111 4	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
10 7	114 7	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
11 0	118 0	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
11 3	121 3	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
11 6	124 6	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
11 9	127 9	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
12 2	131 2	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
12 5	134 5	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
12 8	137 8	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
13 1	141 1	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
13 4	144 4	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
13 7	147 7	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
14 0	151 0	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
14 3	154 3	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
14 6	157 6	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
14 9	160 9	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
15 2	164 2	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
15 5	167 5	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
15 8	170 8	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
16 1	174 1	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
16 4	177 4	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
16 7	180 7	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
17 0	184 0	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
17 3	187 3	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
17 6	190 6	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
17 9	193 9	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
18 2	197 2	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
18 5	200 5	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
18 8	203 8	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
19 1	207 1	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
19 4	210 4	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
19 7	213 7	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
20 0	217 0	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
20 3	220 3	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
20 6	223 6	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
20 9	226 9	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
21 2	230 2	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
21 5	233 5	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
21 8	236 8	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
22 1	240 1	84 0	920 0	-36 9	-36 9	399 9	99 9	99 9	99 9	264 1	264 1	0 4	95 5	999 9
22 4	243 4	84 0	920 0	-36 9	-36 9	399 9	99 9							

STATION NO. 2  
HENRIETTA, TEXAS  
FEBRUARY 1902

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 BY TEMP MEANS MISSING DATA SITUATION EXCEEDS 5 COUNTS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 5  
DENISON, TEXAS  
6 FEBRUARY 1982  
2302 GM1

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
BY TEMP MEANS MISSING DATA STATION EXCEEDS 5 CONTACTS

STATION NO. 6  
ABILENE, TEXAS  
6 FEBRUARY 1982  
6 2310 GM

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E PDG T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.6	531.9	970.5	-0 2	-15.6	305.0	5.0	4 1	-2 9	275.3	278.5	1 2	30 0	999.9	999.9
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
0.0	11.4	701.8	975.0	-2 8	-22.4	999.9	99.9	99.9	99.9	274.5	276.4	2 7	20 1	999.9	999.9
1.3	13.7	912.3	950.0	-4 7	-21.6	999.9	99.9	99.9	99.9	274.3	276.0	2 7	25 2	999.9	999.9
2.0	16.1	1126.9	900.0	-7 0	-20.5	999.9	99.9	99.9	99.9	274.1	276.8	0 8	32 3	999.9	999.9
2.9	18.5	1346.6	875.0	-8 6	-21.0	888.6	8 6	9 4	9 4	275.4	277.7	0 8	34 4	0 3	205.9
4.5	20.9	1852.6	825.0	-3 8	-23.8	59.4	3 2	-2 8	-1 6	282.2	284.1	0 7	19 8	0 4	227.7
5.3	23.3	1809.6	825.0	-0 9	-13.9	21.3	-1 1	-1 5	-1 5	287.7	292.4	-1 6	37 6	0 6	223.3
6.1	25.8	2056.3	800.0	1 6	-1 1.3	334.9	3 5	3 5	3 5	298.7	298.7	0 7	37 7	0 7	216.6
7.2	28.3	2312.2	775.0	1 6	-1 0.2	291.3	6.3	5.8	5.8	292.9	292.9	2 3	41 3	0 8	198.8
8.1	30.9	2576.7	750.0	2 2	-1 9.2	289.3	10.7	10.7	10.7	299.0	302.0	5	1 1	19 0	0 9
9.1	33.5	2850.9	725.0	2 6	-22.7	281.4	13.9	13.9	13.9	302.5	305.6	0 8	13 2	2 1	14.1
10.1	36.0	3426.3	675.0	0 6	-23.4	268.5	20.3	20.3	20.3	304.1	306.1	0 8	12 6	2 2	123.3
11.1	38.6	4038.1	650.0	-1 6	-25.5	266.7	22.1	22.1	22.1	306.5	309.3	0 9	14 2	3 1	112.2
12.2	41.2	4038.8	625.0	-3 8	-27.5	263.5	22.9	22.9	22.9	308.1	310.2	0 8	14 3	4 3	105.5
13.2	47.0	4359.5	600.0	-6 2	-24.9	259.9	23.5	23.5	23.5	309.0	311.7	0 8	20 9	5 8	100.0
14.5	49.9	4691.0	575.0	-9 1	-14.3	259.6	23.5	23.5	23.5	309.3	316.0	0 8	66 2	6 7	93.3
15.6	52.9	5031.1	550.0	-12 1	-15.4	258.9	25.7	25.7	25.7	309.5	316.2	2 2	78 4	1 1	91.4
16.8	55.8	5368.1	525.0	-14 4	-17.3	254.8	26.3	26.3	26.3	311.1	316.9	2 1	78 7	1 2	89.9
17.9	58.8	5756.7	500.0	-16.2	-20.4	254.3	29.2	28.7	28.7	313.3	316.9	1 9	12 3	8 9	89.9
19.3	61.9	6146.9	475.0	-1 6	-22.4	259.0	34.4	33.7	33.7	314.7	319.0	6 6	69 7	1 4	85.5
20.3	65.1	6512.2	450.0	-1 2	-29.9	999.9	99.9	99.9	99.9	316.9	999.9	4	72 8	1 6	85.5
22.0	68.4	6961.8	425.0	-2 4	-24.6	999.9	99.9	99.9	99.9	317.5	320.4	0 6	77 9	9 9	99.9
23.4	71.6	7400.7	400.0	-2 7	-31.3	260.3	31.5	31.5	31.5	318.7	321.1	0 7	72 4	2 3	83.3
25.0	75.3	7861.2	375.0	-3 1	-34.4	253.6	33.1	33.1	33.1	320.2	322.0	0 5	74 0	0	83.3
26.6	78.9	8371.1	350.0	-3 4	-37.9	99.9	99.9	99.9	99.9	322.8	999.9	4	99 9	30 2	99.9
28.4	82.6	8862.6	325.0	-4 0	-44.0	99.9	99.9	99.9	99.9	324.5	325.4	0 2	52 1	9 9	99.9
30.3	86.5	9469.9	300.0	-4 1	-45.0	99.9	99.9	99.9	99.9	327.2	999.9	9	99 9	9 9	99.9
32.2	90.7	9884.8	275.0	-4 5	-49.0	99.9	99.9	99.9	99.9	328.7	999.9	9	99 9	9 9	99.9
34.5	95.0	10622.8	250.0	-5 0	-4	99.9	24.1	3	46.3	42.4	23.4	5	50 1	1	75.5
37.0	99.6	11309.6	225.0	-5 3	-50.0	99.9	23.4	7	45.8	32.3	32.3	5	57 1	-	73.3
39.6	104.4	12073.9	200.0	-5 3	-53.0	99.9	99.9	99.9	99.9	341.6	999.9	9	99 9	9 9	99.9
42.7	108.6	12799.9	175.0	-5 9	-59.0	99.9	99.9	99.9	99.9	346.9	999.9	9	99 9	9 9	99.9
46.4	115.7	13549.9	150.0	-6 3	-63.9	99.9	99.9	99.9	99.9	379.2	999.9	9	99 9	9 9	99.9
50.5	122.2	14309.9	125.0	-6 3	-63.9	100.0	99.9	99.9	99.9	99.9	999.9	9	99 9	9 9	99.9
55.3	129.7	15069.9	99.9	-7 5	-75.0	99.9	99.9	99.9	99.9	99.9	999.9	9	99 9	9 9	99.9
59.9	99.9	15919.9	50.0	-5 9	-59.0	99.9	99.9	99.9	99.9	99.9	999.9	9	99 9	9 9	99.9
63.6	99.9	16779.9	25.0	-2 5	-2 5	99.9	99.9	99.9	99.9	99.9	999.9	9	99 9	9 9	99.9

ORIGINAL PAGE 15  
OF POOR QUALITY

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
\*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 7

6 FEBRUARY 1982  
1145 GMT

- BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
- BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
- BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG
- BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 7  
ENNIS, TEXAS  
6 FEBRUARY 1982  
1704 GMT

TIME MIN	CRCT	150	125	100	75	50	25	0
0	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
1	2.0	1.5	1.0	0.7	0.5	0.3	0.2	0
2	3.5	2.5	1.8	1.2	0.9	0.6	0.4	0
3	4.5	3.5	2.5	1.8	1.2	0.8	0.5	0
4	5.5	4.5	3.5	2.5	1.8	1.2	0.8	0
5	6.5	5.5	4.5	3.5	2.5	1.8	1.2	0
6	7.5	6.5	5.5	4.5	3.5	2.5	1.8	0
7	8.5	7.5	6.5	5.5	4.5	3.5	2.5	0
8	9.5	8.5	7.5	6.5	5.5	4.5	3.5	0
9	10.5	9.5	8.5	7.5	6.5	5.5	4.5	0
10	11.5	10.5	9.5	8.5	7.5	6.5	5.5	0
11	12.5	11.5	10.5	9.5	8.5	7.5	6.5	0
12	13.5	12.5	11.5	10.5	9.5	8.5	7.5	0
13	14.5	13.5	12.5	11.5	10.5	9.5	8.5	0
14	15.5	14.5	13.5	12.5	11.5	10.5	9.5	0
15	16.5	15.5	14.5	13.5	12.5	11.5	10.5	0
16	17.5	16.5	15.5	14.5	13.5	12.5	11.5	0
17	18.5	17.5	16.5	15.5	14.5	13.5	12.5	0
18	19.5	18.5	17.5	16.5	15.5	14.5	13.5	0
19	20.5	19.5	18.5	17.5	16.5	15.5	14.5	0
20	21.5	20.5	19.5	18.5	17.5	16.5	15.5	0
21	22.5	21.5	20.5	19.5	18.5	17.5	16.5	0
22	23.5	22.5	21.5	20.5	19.5	18.5	17.5	0
23	24.5	23.5	22.5	21.5	20.5	19.5	18.5	0
24	25.5	24.5	23.5	22.5	21.5	20.5	19.5	0
25	26.5	25.5	24.5	23.5	22.5	21.5	20.5	0
26	27.5	26.5	25.5	24.5	23.5	22.5	21.5	0
27	28.5	27.5	26.5	25.5	24.5	23.5	22.5	0
28	29.5	28.5	27.5	26.5	25.5	24.5	23.5	0
29	30.5	29.5	28.5	27.5	26.5	25.5	24.5	0
30	31.5	30.5	29.5	28.5	27.5	26.5	25.5	0
31	32.5	31.5	30.5	29.5	28.5	27.5	26.5	0
32	33.5	32.5	31.5	30.5	29.5	28.5	27.5	0
33	34.5	33.5	32.5	31.5	30.5	29.5	28.5	0
34	35.5	34.5	33.5	32.5	31.5	30.5	29.5	0
35	36.5	35.5	34.5	33.5	32.5	31.5	30.5	0
36	37.5	36.5	35.5	34.5	33.5	32.5	31.5	0
37	38.5	37.5	36.5	35.5	34.5	33.5	32.5	0
38	39.5	38.5	37.5	36.5	35.5	34.5	33.5	0
39	40.5	39.5	38.5	37.5	36.5	35.5	34.5	0
40	41.5	40.5	39.5	38.5	37.5	36.5	35.5	0
41	42.5	41.5	40.5	39.5	38.5	37.5	36.5	0
42	43.5	42.5	41.5	40.5	39.5	38.5	37.5	0
43	44.5	43.5	42.5	41.5	40.5	39.5	38.5	0
44	45.5	44.5	43.5	42.5	41.5	40.5	39.5	0
45	46.5	45.5	44.5	43.5	42.5	41.5	40.5	0
46	47.5	46.5	45.5	44.5	43.5	42.5	41.5	0
47	48.5	47.5	46.5	45.5	44.5	43.5	42.5	0
48	49.5	48.5	47.5	46.5	45.5	44.5	43.5	0
49	50.5	49.5	48.5	47.5	46.5	45.5	44.5	0
50	51.5	50.5	49.5	48.5	47.5	46.5	45.5	0
51	52.5	51.5	50.5	49.5	48.5	47.5	46.5	0
52	53.5	52.5	51.5	50.5	49.5	48.5	47.5	0
53	54.5	53.5	52.5	51.5	50.5	49.5	48.5	0
54	55.5	54.5	53.5	52.5	51.5	50.5	49.5	0
55	56.5	55.5	54.5	53.5	52.5	51.5	50.5	0
56	57.5	56.5	55.5	54.5	53.5	52.5	51.5	0
57	58.5	57.5	56.5	55.5	54.5	53.5	52.5	0
58	59.5	58.5	57.5	56.5	55.5	54.5	53.5	0
59	60.5	59.5	58.5	57.5	56.5	55.5	54.5	0
60	61.5	60.5	59.5	58.5	57.5	56.5	55.5	0
61	62.5	61.5	60.5	59.5	58.5	57.5	56.5	0
62	63.5	62.5	61.5	60.5	59.5	58.5	57.5	0
63	64.5	63.5	62.5	61.5	60.5	59.5	58.5	0
64	65.5	64.5	63.5	62.5	61.5	60.5	59.5	0
65	66.5	65.5	64.5	63.5	62.5	61.5	60.5	0
66	67.5	66.5	65.5	64.5	63.5	62.5	61.5	0
67	68.5	67.5	66.5	65.5	64.5	63.5	62.5	0
68	69.5	68.5	67.5	66.5	65.5	64.5	63.5	0
69	70.5	69.5	68.5	67.5	66.5	65.5	64.5	0
70	71.5	70.5	69.5	68.5	67.5	66.5	65.5	0
71	72.5	71.5	70.5	69.5	68.5	67.5	66.5	0
72	73.5	72.5	71.5	70.5	69.5	68.5	67.5	0
73	74.5	73.5	72.5	71.5	70.5	69.5	68.5	0
74	75.5	74.5	73.5	72.5	71.5	70.5	69.5	0
75	76.5	75.5	74.5	73.5	72.5	71.5	70.5	0
76	77.5	76.5	75.5	74.5	73.5	72.5	71.5	0
77	78.5	77.5	76.5	75.5	74.5	73.5	72.5	0
78	79.5	78.5	77.5	76.5	75.5	74.5	73.5	0
79	80.5	79.5	78.5	77.5	76.5	75.5	74.5	0
80	81.5	80.5	79.5	78.5	77.5	76.5	75.5	0
81	82.5	81.5	80.5	79.5	78.5	77.5	76.5	0
82	83.5	82.5	81.5	80.5	79.5	78.5	77.5	0
83	84.5	83.5	82.5	81.5	80.5	79.5	78.5	0
84	85.5	84.5	83.5	82.5	81.5	80.5	79.5	0
85	86.5	85.5	84.5	83.5	82.5	81.5	80.5	0
86	87.5	86.5	85.5	84.5	83.5	82.5	81.5	0
87	88.5	87.5	86.5	85.5	84.5	83.5	82.5	0
88	89.5	88.5	87.5	86.5	85.5	84.5	83.5	0
89	90.5	89.5	88.5	87.5	86.5	85.5	84.5	0
90	91.5	90.5	89.5	88.5	87.5	86.5	85.5	0
91	92.5	91.5	90.5	89.5	88.5	87.5	86.5	0
92	93.5	92.5	91.5	90.5	89.5	88.5	87.5	0
93	94.5	93.5	92.5	91.5	90.5	89.5	88.5	0
94	95.5	94.5	93.5	92.5	91.5	90.5	89.5	0
95	96.5	95.5	94.5	93.5	92.5	91.5	90.5	0
96	97.5	96.5	95.5	94.5	93.5	92.5	91.5	0
97	98.5	97.5	96.5	95.5	94.5	93.5	92.5	0
98	99.5	98.5	97.5	96.5	95.5	94.5	93.5	0
99	100.5	99.5	98.5	97.5	96.5	95.5	94.5	0
100	101.5	100.5	99.5	98.5	97.5	96.5	95.5	0
101	102.5	101.5	100.5	99.5	98.5	97.5	96.5	0
102	103.5	102.5	101.5	100.5	99.5	98.5	97.5	0
103	104.5	103.5	102.5	101.5	100.5	99.5	98.5	0
104	105.5	104.5	103.5	102.5	101.5	100.5	99.5	0
105	106.5	105.5	104.5	103.5	102.5	101.5	100.5	0
106	107.5	106.5	105.5	104.5	103.5	102.5	101.5	0
107	108.5	107.5	106.5	105.5	104.5	103.5	102.5	0
108	109.5	108.5	107.5	106.5	105.5	104.5	103.5	0
109	110.5	109.5	108.5	107.5	106.5	105.5	104.5	0
110	111.5	110.5	109.5	108.5	107.5	106.5	105.5	0
111	112.5	111.5	110.5	109.5	108.5	107.5	106.5	0
112	113.5	112.5	111.5	110.5	109.5	108.5	107.5	0
113	114.5	113.5	112.5	111.5	110.5	109.5	108.5	0
114	115.5	114.5	113.5	112.5	111.5	110.5	109.5	0
115	116.5	115.5	114.5	113.5	112.5	111.5	110.5	0
116	117.5	116.5	115.5	114.5	113.5	112.5	111.5	0
117	118.5	117.5	116.5	115.5	114.5	113.5	112.5	0
118	119.5	118.5	117.5	116.5	115.5	114.5	113.5	0
119	120.5	119.5	118.5	117.5	116.5	115.5	114.5	0
120	121.5	120.5	119.5	118.5	117.5	116.5	115.5	0
121	122.5	121.5	120.5	119.5	118.5	117.5	116.5	0
122	123.5	122.5	121.5	120.5	119.5	118.5	117.5	0
123	124.5	123.5	122.5	121.5	120.5	119.5	118.5	0
124	125.5	124.5	123.5	122.5	121.5	120.5	119.5	0
125	126.5	125.5	124.5	123.5	122.5	121.5	120.5	0
126	127.5	126.5	125.5	124.5	123.5	122.5	121.5	0
127	128.5	127.5	126.5	125.5	124.5	123.5	122.5	0
128	129.5	128.5	127.5	126.5	125.5	124.5	123.5	0
129	130.5	129.5	128.5	127.5	126.5	125.5	124.5	0
130	131.5	130.5	129.5	128.5	127.5	126.5	125.5	0
131	132.5	131.5	130.5	129.5	128.5	127.5	126.5	0
132	133.5	132.5	131.5	130.5	129.5	128.5	127.5	0
133	134.5	133.5	132.5	131.5	130.5	129.5	128.5	0
134	135.5	134.5	133.5	132.5	131.5	130.5	129.5	0
135	136.5	135.5	134.5	133.5	132.5	131.5	130.5	0
136	137.5	136.5	135.5	134.5	133.5	132.5	131.5	0
137	138.5	137.5	136.5	135.5	134.5	133.5	132.5	0
138	139.5	138.5	137.5	136.5	135.5	134.5	133.5	0
139	140.5	139.5	138.5	137.5	136.5	135.5	134.5	0
140	141.5	140.5	139.5	138.5	137.5	136.5	135.5	0
141	142.5	141.5	140.5	139.5	138.5	137.5	136.5	0
142	143.5	142.5	141.5	140.5	139.5	138.5	137.5	0
143	144.5	143.5	142.5	141.5	140.5	139.5	138.5	0
144	145.5	144.5	143.5	142.5	141.5	140.5	139.5	0
145	146.5	145.5	144.5	143.5	142.5	141.5	140.5	0
146	147.5	146.5	145.5	144.5	143.5	142.5	141.5	0

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGIN OF POLICE CITY

SATION NO. 8  
BROWNSWOOD, TEXAS

8 FEBRUARY 1982

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	M' RATIO GM KG	RH PCT	RANGE KM	AZ DG
00 0 2	9 9 1	502.3	977.2	-5 0	-14 7	316.0	0 0	5 0	-5 8	268.9	99.9	99.9	99.9	158	0
00 0 6	9 9 1	519.9	1000.0	-5 0	-17 3	337.9	9 9	9 9	-6 2	287.6	99.9	99.9	99.9	158	0
00 1 0	9 9 1	721.6	975.0	-5 0	-18 2	343.9	2 1	2 1	-7 2	288.1	99.9	99.9	99.9	158	0
00 1 4	9 9 1	925.5	925.0	-5 0	-17 8	358.2	6 4	0 2	-6 4	270.6	99.9	99.9	99.9	158	0
00 1 8	9 9 1	920.0	920.0	-5 0	-11 7	20 4	5 3	6 2	-1 0 7	268.1	99.9	99.9	99.9	158	0
00 2 2	9 9 1	1137.6	875.0	-8 7	-2 0	19 6	5 3	1 9	-1 8	271.6	99.9	99.9	99.9	158	0
00 2 6	9 9 1	1354.9	850.0	-2 5	-1 1	14 4	12 6	5 5	-1 2	276.5	99.9	99.9	99.9	158	0
00 3 0	9 9 1	1582.3	850.0	-2 5	-1 9	0	3 7	1 2	-1 2	288.1	99.9	99.9	99.9	158	0
00 3 4	9 9 1	1619.7	825.0	-1 0	-3 0	292.8	6 3	6 3	-7 6	294.6	99.9	99.9	99.9	158	0
00 3 8	9 9 1	2068.2	800.0	-3 0	-3 2	289.3	8 3	8 3	-8 9	299.4	99.9	99.9	99.9	158	0
00 4 2	9 9 1	2326.2	775.0	-1 0	-1 4	287.3	9 0	9 0	-9 0	303.1	99.9	99.9	99.9	158	0
00 4 6	9 9 1	2592.6	725.0	-2 0	-2 0	272.2	2 2	1 1	-1 5	302.6	99.9	99.9	99.9	158	0
00 5 0	9 9 1	2867.7	700.0	-0 0	-0 0	254.0	1 3	1 3	-1 2	308.5	99.9	99.9	99.9	158	0
00 5 4	9 9 1	3149.6	675.0	-1 0	-1 0	250.7	1 3	1 3	-1 2	308.5	99.9	99.9	99.9	158	0
00 5 8	9 9 1	336.7	344.1	-7	-3 7	250.7	1 3	1 3	-1 2	308.5	99.9	99.9	99.9	158	0
00 6 2	9 9 1	342.2	374.3	-6 5	-1 8	252.8	2 2	2 2	-2 2	307.9	99.9	99.9	99.9	158	0
00 6 6	9 9 1	345.0	405.5	-6 0	-1 2	252.3	2 4	2 4	-2 4	312.3	99.9	99.9	99.9	158	0
00 7 0	9 9 1	437.7	437.7	-6 0	-1 4	252.3	2 4	2 4	-2 4	312.3	99.9	99.9	99.9	158	0
00 7 4	9 9 1	470.9	575.0	-1 1	-1 1	252.3	2 7	2 7	-2 7	312.3	99.9	99.9	99.9	158	0
00 7 8	9 9 1	505.7	505.2	-1 1	-1 1	258.3	2 7	2 7	-2 7	312.3	99.9	99.9	99.9	158	0
00 8 2	9 9 1	531.6	525.5	-1 1	-1 1	265.2	3 0	3 0	-3 0	312.3	99.9	99.9	99.9	158	0
00 8 6	9 9 1	560.7	546.9	-1 1	-1 4	269.2	3 2	3 2	-3 4	312.3	99.9	99.9	99.9	158	0
00 9 0	9 9 1	580.8	578.0	-2 0	-2 0	269.2	3 4	3 4	-3 4	312.3	99.9	99.9	99.9	158	0
00 9 4	9 9 1	6167.0	475.0	-1 6	-1 6	267.4	3 4	3 4	-3 4	312.3	99.9	99.9	99.9	158	0
00 9 8	9 9 1	6571.4	450.0	-1 9	-1 9	261.0	3 5	3 5	-3 5	312.3	99.9	99.9	99.9	158	0
01 0 2	9 9 1	6991.7	425.0	-2 2	-2 2	267.5	3 5	3 5	-3 5	312.3	99.9	99.9	99.9	158	0
01 0 6	9 9 1	7436.7	400.0	-2 5	-2 5	252.0	3 6	3 6	-3 6	312.3	99.9	99.9	99.9	158	0
01 1 0	9 9 1	7901.8	372.7	-2 8	-2 8	252.7	3 7	3 7	-3 7	312.3	99.9	99.9	99.9	158	0
01 1 4	9 9 1	832.0	350.0	-3 2	-3 2	247.1	4 1	4 1	-4 1	312.3	99.9	99.9	99.9	158	0
01 1 8	9 9 1	842.2	891.2	-3 2	-3 2	243.7	4 5	4 5	-4 5	312.3	99.9	99.9	99.9	158	0
01 2 2	9 9 1	862.2	891.2	-3 5	-3 5	242.7	5 3	5 3	-5 3	312.3	99.9	99.9	99.9	158	0
01 2 6	9 9 1	92.4	1005.7	-3 2	-3 2	242.6	5 1	5 1	-5 1	312.3	99.9	99.9	99.9	158	0
01 3 0	9 9 1	1089.4	259.0	-3 2	-3 2	241.5	6 0	6 0	-6 0	312.3	99.9	99.9	99.9	158	0
01 3 4	9 9 1	1136.7	225.0	-3 2	-3 2	240.1	6 2	6 2	-6 2	312.3	99.9	99.9	99.9	158	0
01 3 8	9 9 1	101.6	101.6	-3 2	-3 2	231.8	4 9	4 9	-4 9	312.3	99.9	99.9	99.9	158	0
01 4 2	9 9 1	1214.5	200.0	-3 2	-3 2	231.8	4 9	4 9	-4 9	312.3	99.9	99.9	99.9	158	0
01 4 6	9 9 1	112.0	1299.9	-1 7	-1 7	235.4	4 9	4 9	-4 9	312.3	99.9	99.9	99.9	158	0
01 5 0	9 9 1	118.0	1397.2	-1 5	-1 5	235.7	5 9	5 9	-5 9	312.3	99.9	99.9	99.9	158	0
01 5 4	9 9 1	124.7	1509.8	-1 2	-1 2	235.8	6 4	6 4	-6 4	312.3	99.9	99.9	99.9	158	0
01 5 8	9 9 1	132.0	1644.6	-1 0	-1 0	235.8	6 8	6 8	-6 8	312.3	99.9	99.9	99.9	158	0
01 6 2	9 9 1	140.5	181.6	-2 4	-2 4	235.8	7 5	7 5	-7 5	312.3	99.9	99.9	99.9	158	0
01 6 6	9 9 1	150.0	2062.5	-5 0	-5 0	235.8	8 0	8 0	-8 0	312.3	99.9	99.9	99.9	158	0
01 7 0	9 9 1	160.3	2497.0	-2 5	-2 5	235.8	8 0	8 0	-8 0	312.3	99.9	99.9	99.9	158	0

ORIGINAL  
OF POOR QUALITY

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE  
OF POOR QUALITY

STATION NO. 9  
HEWITT, TEXAS  
6 FEBRUARY 1982  
1713 GMT

BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 9  
HEMITT, TEXAS

6 FEBRUARY 1982

2300 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES IN	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	E POT T DG K	POT T DG K	M RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.8	184.1	101.9	100.9	-12.9	20.0	4.0	-1.4	-1.6	272.2	276.0	99.9	99.9	0.0	0.0
1.0	1.5	278.0	97.9	99.9	-13.9	10.2	5.0	-1.1	-1.6	271.4	274.6	99.9	99.9	0.0	0.0
2.0	1.5	683.2	95.0	-14.5	-14.5	6.3	0.5	-0.5	-1.6	271.0	274.4	99.9	99.9	0.4	20.3
3.0	16.1	925.0	925.0	-15.6	-15.6	8.5	0.5	-0.5	-1.7	271.0	274.4	99.9	99.9	0.7	19.5
4.0	18.5	1105.0	900.0	-17.0	-17.0	12.2	1.4	-1.4	-1.7	277.0	279.1	99.9	99.9	1.0	19.3
5.0	1.5	1327.0	875.0	-17.4	-17.4	12.2	1.4	-1.4	-1.7	280.0	283.8	99.9	99.9	1.5	20.3
6.0	1.5	1558.4	850.0	-17.4	-17.4	12.2	1.4	-1.4	-1.7	286.7	292.4	99.9	99.9	2.1	21.2
7.0	23.0	2048.2	798.4	-18.0	-18.0	10.6	2.8	-10.6	-10.6	290.6	297.3	304.3	34.0	2.2	21.2
8.0	28.2	2307.9	775.0	-18.0	-18.0	6.7	0.7	-12.4	-12.4	299.4	305.4	306.3	34.0	2.2	21.2
9.0	34.5	3019.2	750.0	-18.0	-18.0	12.8	1.7	-12.4	-12.4	303.2	309.4	311.5	34.0	2.2	21.2
10.0	35.8	3264.9	725.0	-18.0	-18.0	15.8	1.8	-15.8	-15.8	305.2	312.1	312.1	34.0	2.2	21.2
11.0	36.0	3313.4	700.0	-18.0	-18.0	26.7	2.2	-18.0	-18.0	307.1	313.1	317.3	34.0	2.2	21.2
12.0	36.6	3427.3	675.0	-18.0	-18.0	268.5	2.5	-18.0	-18.0	308.0	313.1	317.3	34.0	2.2	21.2
13.0	37.0	3525.0	650.0	-18.0	-18.0	268.3	2.5	-18.0	-18.0	308.6	313.1	317.3	34.0	2.2	21.2
14.0	37.4	3641.7	625.0	-18.0	-18.0	268.3	2.5	-18.0	-18.0	309.8	313.1	317.3	34.0	2.2	21.2
15.0	37.5	4362.8	600.0	-18.0	-18.0	258.5	2.5	-24.3	-24.3	310.4	317.6	319.5	34.0	2.2	21.2
16.0	37.6	4694.7	575.0	-18.0	-18.0	258.2	2.5	-24.3	-24.3	310.4	317.6	319.5	34.0	2.2	21.2
17.0	37.7	5037.7	550.0	-18.0	-18.0	265.7	2.5	-25.5	-25.5	311.4	317.1	317.1	34.0	2.2	21.2
18.0	37.8	5252.7	525.0	-18.0	-18.0	265.7	2.5	-25.5	-25.5	311.4	317.1	317.1	34.0	2.2	21.2
19.0	37.9	5356.0	500.0	-18.0	-18.0	265.7	2.5	-25.5	-25.5	311.4	317.1	317.1	34.0	2.2	21.2
20.0	38.0	5373.0	475.0	-18.0	-18.0	265.7	2.5	-25.5	-25.5	311.4	317.1	317.1	34.0	2.2	21.2
21.0	38.1	5441.7	450.0	-18.0	-18.0	256.4	2.5	-29.7	-29.7	315.4	320.4	320.4	34.0	2.2	21.2
22.0	38.2	5456.2	425.0	-18.0	-18.0	250.7	2.5	-32.3	-32.3	316.3	321.0	321.0	34.0	2.2	21.2
23.0	38.4	5687.9	400.0	-18.0	-18.0	254.9	2.5	-32.4	-32.4	316.5	321.2	321.2	34.0	2.2	21.2
24.0	38.5	5740.7	375.0	-18.0	-18.0	254.9	2.5	-32.4	-32.4	319.0	322.6	322.6	34.0	2.2	21.2
25.0	38.6	5868.4	350.0	-18.0	-18.0	350.0	2.5	-32.5	-32.5	322.6	327.0	327.0	34.0	2.2	21.2
26.0	38.7	5915.7	325.0	-18.0	-18.0	325.0	2.5	-32.5	-32.5	325.6	330.5	330.5	34.0	2.2	21.2
27.0	38.8	5967.9	300.0	-18.0	-18.0	325.0	2.5	-32.5	-32.5	325.6	333.6	333.6	34.0	2.2	21.2
28.0	38.9	6020.2	275.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	337.3	337.3	34.0	2.2	21.2
29.0	39.0	6074.5	250.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	345.9	345.9	34.0	2.2	21.2
30.0	39.1	6128.3	225.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	358.9	358.9	34.0	2.2	21.2
31.0	39.2	6182.7	200.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	364.4	364.4	34.0	2.2	21.2
32.0	39.3	6237.0	175.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	376.6	376.6	34.0	2.2	21.2
33.0	39.4	6293.5	150.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	389.2	389.2	34.0	2.2	21.2
34.0	39.5	6357.7	125.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	418.7	418.7	34.0	2.2	21.2
35.0	39.6	6421.9	100.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	486.2	486.2	34.0	2.2	21.2
36.0	39.7	6486.0	75.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	619.0	619.0	34.0	2.2	21.2
37.0	39.8	6550.9	50.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	722.8	722.8	34.0	2.2	21.2
38.0	39.9	6614.2	25.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	817.7	817.7	34.0	2.2	21.2
39.0	40.0	6677.5	0.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	903.7	903.7	34.0	2.2	21.2
40.0	40.1	6740.8	-25.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
41.0	40.2	6804.1	-50.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
42.0	40.3	6867.4	-75.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
43.0	40.4	6930.7	-100.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
44.0	40.5	6994.0	-125.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
45.0	40.6	7057.3	-150.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
46.0	40.7	7120.6	-175.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
47.0	40.8	7183.9	-200.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
48.0	40.9	7247.2	-225.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
49.0	41.0	7310.5	-250.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
50.0	41.1	7373.8	-275.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
51.0	41.2	7437.1	-300.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
52.0	41.3	7490.4	-325.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
53.0	41.4	7553.7	-350.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
54.0	41.5	7617.0	-375.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
55.0	41.6	7680.3	-400.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
56.0	41.7	7743.6	-425.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
57.0	41.8	7806.9	-450.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
58.0	41.9	7870.2	-475.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
59.0	42.0	7933.5	-500.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
60.0	42.1	7996.8	-525.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
61.0	42.2	8060.1	-550.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
62.0	42.3	8123.4	-575.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
63.0	42.4	8186.7	-600.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
64.0	42.5	8250.0	-625.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
65.0	42.6	8313.3	-650.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
66.0	42.7	8376.6	-675.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
67.0	42.8	8440.0	-700.0	-18.0	-18.0	326.0	2.5	-32.6	-32.6	326.6	999.9	999.9	34.0	2.2	21.2
68.0</td															

**ORIGINAL SOURCE  
OF POOR QUALITY**

STATION NO 1C  
MENARD, TEXAS

6 FEBRUARY 1992  
1225 GMZ

יְהוָה יְהוָה

- BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
- BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
- BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG
- BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



## ORIGIN OF POOR

STATION NO. 10  
MENARD, TEXAS

6 FEBRUARY 1982  
2310 GM

	AZ	RANGE	KM	DG
RH	999	999	999	999
PCT	999	999	999	999
MIX RATIO	1	6	0	48
CM/KG	999	999	999	999
E POI T	278	5	278	5
DG K	999	999	999	999
POI T	274	1	274	1
DG K	999	999	999	999
V COMP	99	9	99	9
M/SEC	99	9	99	9
U COMP	99	9	99	9
M/SEC	99	9	99	9
SPEED	99	6	99	6
M/SEC	99	9	99	9
DIR	999	9	999	9
DG	999	9	999	9
DEW PT	-11	5	99	9
DG C	999	9	999	9
TEMP	-2	0	99	9
DG C	999	9	999	9
PRES	1	0	99	9
MB	1000	0	999	9
	975	0	999	9
	925	0	999	9
	900	0	999	9
	875	0	999	9
	850	0	999	9
	825	0	999	9
	775	0	999	9
	750	0	999	9
	725	0	999	9
	700	0	999	9
	675	0	999	9
	650	0	999	9
	625	0	999	9
	575	0	999	9
	525	0	999	9
	500	0	999	9
	475	0	999	9
	450	0	999	9
	425	0	999	9
	375	0	999	9
	350	0	999	9
	325	0	999	9
	275	0	999	9
	250	0	999	9
	225	0	999	9
	200	0	999	9
	175	0	999	9
	150	0	999	9
	125	0	999	9
	100	0	999	9
	75	0	999	9
	50	0	999	9
	55	0	999	9
	62	0	999	9
	65	0	999	9
	71	0	999	9
	78	0	999	9
	82	0	999	9
	86	0	999	9
	95	0	999	9
	104	0	999	9
	118	0	999	9
	122	0	999	9
	138	0	999	9
	139	0	999	9
	140	0	999	9

BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 0  
BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



STATION NO. 11  
BURNET, TEXAS

6 FEBRUARY 1982  
23:00 GMT

	AZ KG	RH PCT	RANGE KM	DG
MX RATIO	1	999	999	999
GM/AG	999	999	999	999
E POI 1	30 0	999 9	999 9	999 9
DG K	999 9	999 9	999 9	999 9
POI 1	276 2	999 9	999 9	999 9
DG K	276 2	999 9	999 9	999 9
V COMP	99 9	99 9	99 9	99 9
M/SEC	99 9	99 9	99 9	99 9
U COMP	99 9	99 9	99 9	99 9
M/SEC	99 9	99 9	99 9	99 9
SPEED	99 9	99 9	99 9	99 9
M/SEC	99 9	99 9	99 9	99 9
DIR	999	999	999	999
DG	999	999	999	999
DEW PT	-16 3	99 9	99 9	99 9
DG C	-13 4	99 9	99 9	99 9
TEMP	0 0 0 0	99 9	99 9	99 9
DG C	-1 0 0 0	99 9	99 9	99 9
PRES	5 0 0 0	99 9	99 9	99 9
MM	1000	999	999	999
HEIGHT	386 5	999	999	999
MM	479 5	999	999	999
CHCT	0 0 0 0	99 9	99 9	99 9
MM	0 0 0 0	99 9	99 9	99 9

BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
BY TEMP MEANS MISSING DATA STRAIGHT EXCEEDS 5 CONTACTS

STATION NO. 12  
COLLEGE STATION, TEXAS

STATION NO. 12  
COLLEGE STATION, TEXAS

BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 12  
COLLEGE STATION, TEXAS

6 FEBRUARY 1982

6 1701 GMT

	102	200	0
RH	999	999	999
PCT	58.0	71.6	62.5
AZ	999	999	999
DG	999	999	999
MIX RATIO	1.7	1.7	1.7
GM/KG	272.2	267.8	267.8
E POT	0.1	0.1	0.1
DG K	272.2	272.2	272.2
POT	267.6	267.6	267.6
DG K	267.6	267.6	267.6
V COMP	99.9	99.9	99.9
M/SEC	99.9	99.9	99.9
DIP	99.9	99.9	99.9
DG D	99.9	99.9	99.9
DEW PT	3.2	-10.3	-13.5
DG C	-1.0	-1.3	-1.3
TEMP	-3.2	-1.0	-1.0
DG C	-1.0	-1.2	-1.2
PRES	1020	1020	1020
IN	975	975	975
925	925	925	925
875	875	875	875
825	825	825	825
775	775	775	775
725	725	725	725
675	675	675	675
625	625	625	625
575	575	575	575
525	525	525	525
475	475	475	475
425	425	425	425
375	375	375	375
325	325	325	325
275	275	275	275
225	225	225	225
175	175	175	175
125	125	125	125
75	75	75	75
25	25	25	25
MEIGHT	79.0	205.0	490.0
Q:IN	690.0	690.0	690.0
1167	1167	1167	1167
1528	1528	1528	1528
1543	1543	1543	1543
1661	1661	1661	1661
2061	2061	2061	2061
2461	2461	2461	2461
2861	2861	2861	2861
3261	3261	3261	3261
3661	3661	3661	3661
4061	4061	4061	4061
4371	4371	4371	4371
4762	4762	4762	4762
5162	5162	5162	5162
5562	5562	5562	5562
5962	5962	5962	5962
6362	6362	6362	6362
6762	6762	6762	6762
7162	7162	7162	7162
7562	7562	7562	7562
7962	7962	7962	7962
8362	8362	8362	8362
8762	8762	8762	8762
9162	9162	9162	9162
9562	9562	9562	9562
9962	9962	9962	9962
10362	10362	10362	10362
10762	10762	10762	10762
11162	11162	11162	11162
11562	11562	11562	11562
11962	11962	11962	11962
12362	12362	12362	12362
12762	12762	12762	12762
13162	13162	13162	13162
13562	13562	13562	13562
13962	13962	13962	13962
14362	14362	14362	14362
14762	14762	14762	14762
15162	15162	15162	15162
15562	15562	15562	15562
15962	15962	15962	15962
16362	16362	16362	16362
16762	16762	16762	16762
17162	17162	17162	17162
17562	17562	17562	17562
17962	17962	17962	17962
18362	18362	18362	18362
18762	18762	18762	18762
19162	19162	19162	19162
19562	19562	19562	19562
19962	19962	19962	19962
20362	20362	20362	20362
20762	20762	20762	20762
21162	21162	21162	21162
21562	21562	21562	21562
21962	21962	21962	21962
22362	22362	22362	22362
22762	22762	22762	22762
23162	23162	23162	23162
23562	23562	23562	23562
23962	23962	23962	23962
24362	24362	24362	24362
24762	24762	24762	24762
25162	25162	25162	25162
25562	25562	25562	25562
25962	25962	25962	25962
26362	26362	26362	26362
26762	26762	26762	26762
27162	27162	27162	27162
27562	27562	27562	27562
27962	27962	27962	27962
28362	28362	28362	28362
28762	28762	28762	28762
29162	29162	29162	29162
29562	29562	29562	29562
29962	29962	29962	29962
30362	30362	30362	30362
30762	30762	30762	30762
31162	31162	31162	31162
31562	31562	31562	31562
31962	31962	31962	31962
32362	32362	32362	32362
32762	32762	32762	32762
33162	33162	33162	33162
33562	33562	33562	33562
33962	33962	33962	33962
34362	34362	34362	34362
34762	34762	34762	34762
35162	35162	35162	35162
35562	35562	35562	35562
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36362	36362	36362	36362
36762	36762	36762	36762
37162	37162	37162	37162
37562	37562	37562	37562
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39162	39162	39162	39162
39562	39562	39562	39562
39962	39962	39962	39962
40362	40362	40362	40362
40762	40762	40762	40762
41162	41162	41162	41162
41562	41562	41562	41562
41962	41962	41962	41962
42362	42362	42362	42362
42762	42762	42762	42762
43162	43162	43162	43162
43562	43562	43562	43562
43962	43962	43962	43962
44362	44362	44362	44362
44762	44762	44762	44762
45162	45162	45162	45162
45562	45562	45562	45562
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46362	46362	46362	46362
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47962	47962	47962	47962
48362	48362	48362	48362
48762	48762	48762	48762
49162	49162	49162	49162
49562	49562	49562	49562
49962	49962	49962	49962
50362	50362	50362	50362
50762	50762	50762	50762
51162	51162	51162	51162
51562	51562	51562	51562
51962	51962	51962	51962
52362	52362	52362	52362
52762	52762	52762	52762
53162	53162	53162	53162
53562	53562	53562	53562
53962	53962	53962	53962
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55162	55162	55162	55162
55562	55562	55562	55562
55962	55962	55962	55962
56362	56362	56362	56362
56762	56762	56762	56762
57162	57162	57162	57162
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58362	58362	58362	58362
58762	58762	58762	58762
59162	59162	59162	59162
59562	59562	59562	59562
59962	59962	59962	59962
60362	60362	60362	60362
60762	60762	60762	60762
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63162	63162	63162	63162
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63962	63962	63962	63962
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64762	64762	64762	64762
65162	65162	65162	65162
65562	65562	65562	65562
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66762	66762	66762	66762
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68762	68762	68762	68762
69162	69162	69162	69162
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70762	70762	70762	70762
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71562	71562	71562	71562
71962	71962	71962	71962
72362	72362	72362	72362
72762	72762	72762	72762
73162	73162	73162	73162
73562	73562	73562	73562
73962	73962	73962	73962
74362	74362	74362	74362
74762	74762	74762	74762
75162	75162	75162	75162
75562	75562	75562	75562
75962	75962	75962	75962
76362	76362	76362	76362
76762	76762	76762	76762
77162	77162	77162	77162
77562	77562	77562	77562
77962	77962	77962	77962
78362	78362	78362	78362
78762	78762	78762	78762
79162	79162	79162	79162
79562	79562	79562	79562
79962	79962	79962	79962
80362	80362	80362	80362
80762	80762	80762	80762
81162	81162	81162	81162
81562	81562	81562	81562
81962	81962	81962	81962
82362	82362	82362	82362
82762	82762	82762	82762
83162	83162	83162	83162
83562	83562	83562	83562
83962	83962	83962	83962
84362	84362	84362	84362
84762	84762	84762	84762
85162	85162	85162	85162
85562	85562	85562	

STATION NO. 12  
COLLEGE STATION, TEXAS

6 FEBRUARY 1982

2338 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MAX RTO GM/KG	RH PCT	RANGE AZ DG
0.0	4.5	79.0	1023.7	0.0	-6.8	99.9	99.9	99.9	99.9	271.3	277.1	2.2	60.0	99.9 99.9
0.6	6.7	99.9	1000.0	99.9**	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9 99.9
1.3	11.0	99.9	975.0	99.9**	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9 99.9
2.0	13.3	99.9	925.0	99.9**	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9 99.9
2.7	15.6	99.9	900.0	-2.1	-13.5	99.9	99.9	99.9	99.9	279.3	283.5	1.5	41.5	99.9 99.9
3.4	17.9	99.9	875.0	1.9	-12.4	99.9	99.9	99.9	99.9	290.6	297.6	2.6	41.5	99.9 99.9
4.1	20.4	99.9	850.0	4.3	-7.8	99.9	99.9	99.9	99.9	295.0	301.9	2.4	33.9	99.9 99.9
4.8	22.7	99.9	825.0	6.0	-6.7	99.9	99.9	99.9	99.9	309.3	313.2	1.4	61.1	99.9 99.9
5.5	25.1	99.9	800.0	8.0	-1.3	99.9	99.9	99.9	99.9	305.4	312.5	4.0	48.6	99.9 99.9
6.2	27.4	99.9	775.0	7.5	-1.4	99.9	99.9	99.9	99.9	314.0	314.0	2.1	24.0	99.9 99.9
6.9	29.7	99.9	750.0	6.1	-10.2	99.9	99.9	99.9	99.9	305.5	312.6	2.1	24.3	99.9 99.9
7.6	32.0	99.9	725.0	7.3	-11.7	99.9	99.9	99.9	99.9	314.7	317.2	3.2	38.1	99.9 99.9
8.3	34.3	99.9	700.0	5.6	-18.4	99.9	99.9	99.9	99.9	318.2	319.5	2.0	46.1	99.9 99.9
9.0	36.6	99.9	675.0	3.6	-1.2	99.9	99.9	99.9	99.9	320.2	320.2	2.9	62.6	99.9 99.9
9.7	39.0	99.9	650.0	1.2	-9.8	99.9	99.9	99.9	99.9	321.3	321.3	3.5	79.1	99.9 99.9
10.4	41.3	99.9	625.0	0.2	-10.0	99.9	99.9	99.9	99.9	322.7	322.7	5.5	81.6	99.9 99.9
11.1	43.6	99.9	600.0	-4.9	-10.0	99.9	99.9	99.9	99.9	323.7	323.7	2.0	88.1	99.9 99.9
11.8	45.9	99.9	575.0	-6.9	-13.0	99.9	99.9	99.9	99.9	324.3	324.3	1.3	85.8	99.9 99.9
12.5	48.2	99.9	550.0	-18.8	-1.0	99.9	99.9	99.9	99.9	324.6	324.6	0.6	84.3	99.9 99.9
13.2	50.5	99.9	525.0	-11.5	-15.2	99.9	99.9	99.9	99.9	325.0	325.0	0.5	80.5	99.9 99.9
13.9	52.8	99.9	500.0	-13.7	-17.7	99.9	99.9	99.9	99.9	325.7	326.4	0.4	42.7	99.9 99.9
14.6	55.1	99.9	475.0	-16.2	-21.2	99.9	99.9	99.9	99.9	326.4	326.4	0.2	39.8	99.9 99.9
15.3	57.4	99.9	450.0	-19.4	-24.4	99.9	99.9	99.9	99.9	327.2	327.2	0.2	39.8	99.9 99.9
16.0	60.7	99.9	425.0	-22.3	-25.6	99.9	99.9	99.9	99.9	328.7	328.7	0.2	39.8	99.9 99.9
16.7	63.0	99.9	400.0	-25.6	-29.0	99.9	99.9	99.9	99.9	329.6	329.6	0.2	39.8	99.9 99.9
17.4	65.3	99.9	375.0	-27.7	-30.9	99.9	99.9	99.9	99.9	330.5	330.5	0.5	42.7	99.9 99.9
18.1	67.6	99.9	350.0	-30.9	-33.0	99.9	99.9	99.9	99.9	331.4	331.4	0.4	42.7	99.9 99.9
18.8	70.0	99.9	325.0	-34.8	-43.6	99.9	99.9	99.9	99.9	332.3	332.3	0.6	80.5	99.9 99.9
19.5	72.3	99.9	300.0	-43.7	-47.5	99.9	99.9	99.9	99.9	333.2	333.2	0.5	84.3	99.9 99.9
20.2	74.7	99.9	275.0	-51.4	-51.4	99.9	99.9	99.9	99.9	334.5	334.5	0.5	80.5	99.9 99.9
20.9	77.0	99.9	225.0	-53.7	-53.7	99.9	99.9	99.9	99.9	335.7	335.7	0.5	84.3	99.9 99.9
21.6	80.3	99.9	175.0	-55.5	-55.5	99.9	99.9	99.9	99.9	336.3	336.3	0.5	84.3	99.9 99.9
22.3	83.5	99.9	150.0	-59.0	-59.0	99.9	99.9	99.9	99.9	337.3	337.3	0.5	84.3	99.9 99.9
23.0	86.7	99.9	125.0	-61.0	-61.0	99.9	99.9	99.9	99.9	338.3	338.3	0.5	84.3	99.9 99.9
23.7	90.0	99.9	100.0	-63.0	-63.0	99.9	99.9	99.9	99.9	339.3	339.3	0.5	84.3	99.9 99.9
24.4	93.2	99.9	75.0	-65.0	-65.0	99.9	99.9	99.9	99.9	340.3	340.3	0.5	84.3	99.9 99.9
25.1	96.4	99.9	50.0	-66.0	-66.0	99.9	99.9	99.9	99.9	341.3	341.3	0.5	84.3	99.9 99.9
25.8	99.7	99.9	25.0	-67.0	-67.0	99.9	99.9	99.9	99.9	342.3	342.3	0.5	84.3	99.9 99.9
26.5	103.0	99.9	0.0	-68.0	-68.0	99.9	99.9	99.9	99.9	343.3	343.3	0.5	84.3	99.9 99.9
27.2	106.2	99.9	0.0	-69.0	-69.0	99.9	99.9	99.9	99.9	344.3	344.3	0.5	84.3	99.9 99.9
27.9	107.6	99.9	0.0	-70.0	-70.0	99.9	99.9	99.9	99.9	345.3	345.3	0.5	84.3	99.9 99.9
28.6	109.0	99.9	0.0	-71.0	-71.0	99.9	99.9	99.9	99.9	346.3	346.3	0.5	84.3	99.9 99.9
29.3	110.3	99.9	0.0	-72.0	-72.0	99.9	99.9	99.9	99.9	347.3	347.3	0.5	84.3	99.9 99.9
30.0	111.6	99.9	0.0	-73.0	-73.0	99.9	99.9	99.9	99.9	348.3	348.3	0.5	84.3	99.9 99.9
30.7	112.9	99.9	0.0	-74.0	-74.0	99.9	99.9	99.9	99.9	349.3	349.3	0.5	84.3	99.9 99.9
31.4	114.2	99.9	0.0	-75.0	-75.0	99.9	99.9	99.9	99.9	350.3	350.3	0.5	84.3	99.9 99.9
32.1	115.5	99.9	0.0	-76.0	-76.0	99.9	99.9	99.9	99.9	351.3	351.3	0.5	84.3	99.9 99.9
32.8	116.8	99.9	0.0	-77.0	-77.0	99.9	99.9	99.9	99.9	352.3	352.3	0.5	84.3	99.9 99.9
33.5	118.1	99.9	0.0	-78.0	-78.0	99.9	99.9	99.9	99.9	353.3	353.3	0.5	84.3	99.9 99.9
34.2	119.4	99.9	0.0	-79.0	-79.0	99.9	99.9	99.9	99.9	354.3	354.3	0.5	84.3	99.9 99.9
34.9	120.7	99.9	0.0	-80.0	-80.0	99.9	99.9	99.9	99.9	355.3	355.3	0.5	84.3	99.9 99.9
35.6	122.0	99.9	0.0	-81.0	-81.0	99.9	99.9	99.9	99.9	356.3	356.3	0.5	84.3	99.9 99.9
36.3	123.3	99.9	0.0	-82.0	-82.0	99.9	99.9	99.9	99.9	357.3	357.3	0.5	84.3	99.9 99.9
37.0	124.6	99.9	0.0	-83.0	-83.0	99.9	99.9	99.9	99.9	358.3	358.3	0.5	84.3	99.9 99.9
37.7	125.9	99.9	0.0	-84.0	-84.0	99.9	99.9	99.9	99.9	359.3	359.3	0.5	84.3	99.9 99.9
38.4	127.2	99.9	0.0	-85.0	-85.0	99.9	99.9	99.9	99.9	360.3	360.3	0.5	84.3	99.9 99.9
39.1	128.5	99.9	0.0	-86.0	-86.0	99.9	99.9	99.9	99.9	361.3	361.3	0.5	84.3	99.9 99.9
39.8	129.8	99.9	0.0	-87.0	-87.0	99.9	99.9	99.9	99.9	362.3	362.3	0.5	84.3	99.9 99.9
40.5	131.1	99.9	0.0	-88.0	-88.0	99.9	99.9	99.9	99.9	363.3	363.3	0.5	84.3	99.9 99.9
41.2	132.4	99.9	0.0	-89.0	-89.0	99.9	99.9	99.9	99.9	364.3	364.3	0.5	84.3	99.9 99.9
41.9	133.7	99.9	0.0	-90.0	-90.0	99.9	99.9	99.9	99.9	365.3	365.3	0.5	84.3	99.9 99.9
42.6	135.0	99.9	0.0	-91.0	-91.0	99.9	99.9	99.9	99.9	366.3	366.3	0.5	84.3	99.9 99.9
43.3	136.3	99.9	0.0	-92.0	-92.0	99.9	99.9	99.9	99.9	367.3	367.3	0.5	84.3	99.9 99.9
44.0	137.6	99.9	0.0	-93.0	-93.0	99.9	99.9	99.9	99.9	368.3	368.3	0.5	84.3	99.9 99.9
44.7	138.9	99.9	0.0	-94.0	-94.0	99.9	99.9	99.9	99.9	369.3	369.3	0.5	84.3	99.9 99.9
45.4	140.2	99.9	0.0	-95.0	-95.0	99.9	99.9	99.9	99.9	370.3	370.3	0.5	84.3	99.9 99.9
46.1	141.5	99.9	0.0	-96.0	-96.0	99.9	99.9	99.9	99.9	371.3	371.3	0.5	84.3	99.9 99.9
46.8	142.8	99.9	0.0	-97.0	-97.0	99.9	99.9	99.9	99.9	372.3	372.3	0.5	84.3	99.9 99.9
47.5	144.1	99.9	0.0	-98.0	-98.0	99.9	99.9	99.9	99.9	373.3	373.3	0.5	84.3	99.9 99.9
48.2	145.4	99.9	0.0	-99.0	-99.0	99.9	99.9	99.9	99.9	374.3	374.3	0.5	84.3	99.9 99.9
48.9	146.7	99.9	0.0	-100.0	-100.0	99.9	99.9	99.9	99.9	375.3	375.3	0.5	84.3	99.9 99.9
49.6	148.0	99.9	0.0	-101.0	-101.0	99.9	99.9	99.9	99.9	376.3	376.3	0.5	84.3	99.9 99.9
50.3	149.3	99.9	0.0	-102.0	-10									

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 100  
FT. HOOD, TEXAS  
6 FEBRUARY 1982  
6 1118 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MIX RTO GM/KG	RH PCT	RANGE KM	AZ DG	C
0.0		289.0	997.7	-7.6	-12.6	360.0	3.0	0.0	-3.0	265.7	269.5	1-4	67.0	0.0	999.9	999
0.7		299.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	399.9	399.9	99.9	99.9	99.9	99.9	999
1.4		866.7	975.0	-11.0	-15.6	344.6	14.6	2.1	-14.2	264.0	267.0	1-2	68.0	0.6	999.9	999
2.1		14.3	866.7	-12.4	-15.6	350.2	8.6	0.5	-8.6	268.4	268.9	0.9	76.5	1.2	165	165
2.8		16.6	866.7	-12.6	-16.6	350.2	8.6	0.5	-8.6	274.3	279.2	1-9	80.0	1.7	169	169
3.5		19.3	1080.5	-11.3	326.9	5.9	7.0	6.3	-3.0	278.1	286.9	3-1	72.6	2.1	171	171
4.2		21.9	1301.0	-14.8	296.0	294.9	7.0	6.3	-3.0	281.4	289.9	3-2	105.3	2.2	166	166
4.9		24.4	1530.0	-14.5	-14.8	296.0	7.0	6.3	-3.0	282.6	289.9	3-2	105.3	2.2	160	160
5.6		26.9	1769.4	-12.6	-12.6	252.3	7.4	7.0	-2.2	292.0	298.6	3-8	67.0	2.6	154	154
6.3		29.5	2021.1	800.0	800.0	800.0	10.4	10.0	2.9	298.2	302.0	3-6	37.0	2.7	144	144
7.0		32.1	2282.5	2252.5	2252.5	251.7	12.2	12.1	1.5	302.0	310.5	2-9	34.0	3.0	133	133
7.7		34.7	2629.7	2629.7	2629.7	258.6	12.7	12.5	2.5	303.7	311.8	2-7	32.7	3.6	124	124
8.4		37.3	3115.6	3115.6	3115.6	254.6	14.4	13.9	3.8	305.2	313.2	2-7	35.3	4.1	116	116
9.1		40.0	3713.3	3713.3	3713.3	261.4	16.4	16.9	3.9	307.7	315.2	2-7	36.9	4.9	109	109
9.8		42.6	4025.0	4025.0	4025.0	265.9	20.5	20.4	1.5	307.6	315.3	2-6	39.6	5.9	103	103
10.5		45.2	4346.2	4346.2	4346.2	264.1	22.0	22.0	0.5	308.3	316.0	2-6	47.8	7.1	100	100
11.2		47.8	4678.2	4678.2	4678.2	264.1	13.3	99.9	99.9	309.0	316.0	2-3	57.0	8.7	97	97
11.9		50.4	550.0	550.0	550.0	16.8	99.9	99.9	99.9	310.0	315.9	1-8	50.8	9.8	999	999
12.6		53.0	525.0	525.0	525.0	9.2	9.2	9.2	9.2	305.2	313.2	2-7	35.3	4.4	999	999
13.3		55.6	500.0	500.0	500.0	10.4	261.4	16.4	16.4	307.7	315.4	2-6	39.6	5.9	103	103
14.0		58.2	475.0	475.0	475.0	265.9	20.5	20.4	1.5	307.6	315.3	2-6	47.8	7.1	100	100
14.7		60.7	425.0	425.0	425.0	264.1	22.0	22.0	0.5	308.3	316.0	2-3	57.0	8.7	97	97
15.4		63.3	399.9	399.9	399.9	13.3	99.9	99.9	99.9	309.0	316.0	2-3	50.8	9.8	999	999
16.1		65.9	375.0	375.0	375.0	9.2	9.2	9.2	9.2	310.0	315.9	1-8	50.8	9.8	999	999
16.8		68.5	350.0	350.0	350.0	9.2	9.2	9.2	9.2	305.2	313.2	2-7	35.3	4.4	999	999
17.5		71.1	325.0	325.0	325.0	9.2	9.2	9.2	9.2	307.7	315.4	2-6	39.6	5.9	103	103
18.2		73.7	300.0	300.0	300.0	9.2	9.2	9.2	9.2	308.3	316.0	2-3	57.0	8.7	97	97
19.9		76.3	275.0	275.0	275.0	9.2	9.2	9.2	9.2	310.0	315.9	1-8	50.8	9.8	999	999
20.6		78.9	250.0	250.0	250.0	9.2	9.2	9.2	9.2	305.2	313.2	2-7	35.3	4.4	999	999
21.3		81.5	225.0	225.0	225.0	9.2	9.2	9.2	9.2	307.7	315.4	2-6	39.6	5.9	103	103
22.0		84.1	200.0	200.0	200.0	9.2	9.2	9.2	9.2	308.3	316.0	2-3	57.0	8.7	97	97
22.7		86.7	175.0	175.0	175.0	9.2	9.2	9.2	9.2	310.0	315.9	1-8	50.8	9.8	999	999
23.4		89.3	150.0	150.0	150.0	9.2	9.2	9.2	9.2	305.2	313.2	2-7	35.3	4.4	999	999
24.1		91.9	125.0	125.0	125.0	9.2	9.2	9.2	9.2	307.7	315.4	2-6	39.6	5.9	103	103
24.8		94.5	100.0	100.0	100.0	9.2	9.2	9.2	9.2	308.3	316.0	2-3	57.0	8.7	97	97
25.5		97.1	75.0	75.0	75.0	9.2	9.2	9.2	9.2	310.0	315.9	1-8	50.8	9.8	999	999
26.2		99.7	50.0	50.0	50.0	9.2	9.2	9.2	9.2	305.2	313.2	2-7	35.3	4.4	999	999
26.9		102.3	25.0	25.0	25.0	9.2	9.2	9.2	9.2	307.7	315.4	2-6	39.6	5.9	103	103
27.6		104.9	0.0	0.0	0.0	9.2	9.2	9.2	9.2	308.3	316.0	2-3	57.0	8.7	97	97

• BY SPEED MEANS ELEVATION ANGLE BETWEEN G AND 10 DEG

• BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED

• BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

• BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO 100  
FT HOOD, TEXAS  
6 FEBRUARY 1982  
2305 GMT

TIME MIN	CHCT	HEIGHT GRN	PRES INH	TEMP DG C	DEW PT DG C	DIA DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	E POT T DG K	POT T DG K	MIX RTO GM/KG	RANGE KM	AZ DG	77 353 0
00-1	00-4	966.2	1000.0	99.9	99.9	349.0	4.0	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
1-2	1-4	966.4	985.0	99.9	99.9	349.0	4.0	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
2-3	2-4	966.3	985.0	99.9	99.9	352.0	4.0	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
3-4	3-5	925.0	900.0	99.9	99.9	358.2	4.0	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
4-5	4-7	925.0	875.0	99.9	99.9	329.4	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
5-6	5-7	925.0	850.0	99.9	99.9	305.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
6-7	6-9	925.0	825.0	99.9	99.9	295.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
7-8	7-10	925.0	800.0	99.9	99.9	277.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
8-9	8-11	925.0	775.0	99.9	99.9	254.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
9-10	9-13	925.0	750.0	99.9	99.9	235.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
10-11	10-14	925.0	725.0	99.9	99.9	215.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
11-12	11-15	925.0	700.0	99.9	99.9	195.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
12-13	12-16	925.0	675.0	99.9	99.9	175.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
13-14	13-17	925.0	650.0	99.9	99.9	155.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
14-15	14-18	925.0	625.0	99.9	99.9	135.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
15-16	15-19	925.0	600.0	99.9	99.9	115.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
16-17	16-20	925.0	575.0	99.9	99.9	95.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
17-18	17-21	925.0	550.0	99.9	99.9	75.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
18-19	18-22	925.0	525.0	99.9	99.9	55.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
19-20	19-23	925.0	500.0	99.9	99.9	35.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
20-21	20-24	925.0	475.0	99.9	99.9	15.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
21-22	21-25	925.0	450.0	99.9	99.9	-2.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
22-23	22-26	925.0	425.0	99.9	99.9	-22.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
23-24	23-28	925.0	400.0	99.9	99.9	-29.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
24-25	24-29	925.0	375.0	99.9	99.9	-36.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
25-26	25-30	925.0	350.0	99.9	99.9	-43.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
26-27	26-31	925.0	325.0	99.9	99.9	-50.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
27-28	27-32	925.0	300.0	99.9	99.9	-57.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
28-29	28-33	925.0	275.0	99.9	99.9	-64.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
29-30	29-34	925.0	250.0	99.9	99.9	-71.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
30-31	30-35	925.0	225.0	99.9	99.9	-78.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
31-32	31-36	925.0	200.0	99.9	99.9	-85.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
32-33	32-37	925.0	175.0	99.9	99.9	-92.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
33-34	33-38	925.0	150.0	99.9	99.9	-99.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
34-35	34-39	925.0	125.0	99.9	99.9	-106.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
35-36	35-40	925.0	100.0	99.9	99.9	-113.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
36-37	36-41	925.0	75.0	99.9	99.9	-120.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
37-38	37-42	925.0	50.0	99.9	99.9	-127.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
38-39	38-43	925.0	25.0	99.9	99.9	-134.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
39-40	39-44	925.0	0.0	99.9	99.9	-141.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
40-41	40-45	925.0	0.0	99.9	99.9	-148.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
41-42	41-46	925.0	0.0	99.9	99.9	-155.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
42-43	42-47	925.0	0.0	99.9	99.9	-162.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
43-44	43-48	925.0	0.0	99.9	99.9	-169.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
44-45	44-49	925.0	0.0	99.9	99.9	-176.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
45-46	45-51	925.0	0.0	99.9	99.9	-183.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
46-47	46-52	925.0	0.0	99.9	99.9	-190.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
47-48	47-53	925.0	0.0	99.9	99.9	-197.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
48-49	48-54	925.0	0.0	99.9	99.9	-204.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
49-50	49-55	925.0	0.0	99.9	99.9	-211.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
50-51	50-56	925.0	0.0	99.9	99.9	-218.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
51-52	51-57	925.0	0.0	99.9	99.9	-225.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
52-53	52-58	925.0	0.0	99.9	99.9	-232.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
53-54	53-59	925.0	0.0	99.9	99.9	-239.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
54-55	54-60	925.0	0.0	99.9	99.9	-246.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
55-56	55-61	925.0	0.0	99.9	99.9	-253.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
56-57	56-62	925.0	0.0	99.9	99.9	-260.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
57-58	57-63	925.0	0.0	99.9	99.9	-267.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
58-59	58-64	925.0	0.0	99.9	99.9	-274.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
59-60	59-65	925.0	0.0	99.9	99.9	-281.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
60-61	60-66	925.0	0.0	99.9	99.9	-288.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
61-62	61-67	925.0	0.0	99.9	99.9	-295.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
62-63	62-68	925.0	0.0	99.9	99.9	-302.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
63-64	63-69	925.0	0.0	99.9	99.9	-309.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
64-65	64-70	925.0	0.0	99.9	99.9	-316.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
65-66	65-71	925.0	0.0	99.9	99.9	-323.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
66-67	66-72	925.0	0.0	99.9	99.9	-330.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
67-68	67-73	925.0	0.0	99.9	99.9	-337.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
68-69	68-74	925.0	0.0	99.9	99.9	-344.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
69-70	69-75	925.0	0.0	99.9	99.9	-351.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
70-71	70-76	925.0	0.0	99.9	99.9	-358.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
71-72	71-77	925.0	0.0	99.9	99.9	-365.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
72-73	72-78	925.0	0.0	99.9	99.9	-372.0	7.2	1.4	-3.6	277.4	273.5	99.9	99.9	0	38.0
73-74	73-79	925.0	0.0	99.9	99.9	-379.0	7.2								

## CHICAGO AND THE OF PCR QUALITY

STATION NO 200  
STEPHENVILLE, TEXAS

THE MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
SPEED MEANS ELEVATION ANGLE LESS THAN  
TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

APPENDIX II  
AVE/VAS I Rawinsonde Data  
with Abnormal Characteristics  
Presented at 25-mb Intervals

STATION NO. 2  
HENRIETTA, TEXAS  
6 FEBRUARY 1982  
1157 GMST

TIME MIN	CRNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RIO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	9.8	267.5	1205.0	-10.5	-16.0	315.0	5.0	3.5	-3.5	262.3	264.7	0.9	54.0	0.0	999.9
0.2	12.4	325.8	1050.0	-11.4	-17.8	999.9	99.9	99.9	99.9	261.8	263.7	0.9	56.7	0.0	999.9
0.4	14.4	518.4	975.0	-13.6	-20.1	999.9	99.9	99.9	99.9	262.0	264.1	0.8	64.9	0.0	999.9
0.6	16.6	919.2	950.0	-15.0	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	0.8	35.4	0.0	999.9
0.8	19.0	925.0	925.0	-12.7	-12.7	999.9	99.9	99.9	99.9	262.0	264.1	0.5	30.9	0.0	999.9
1.0	21.3	934.6	900.0	-12.7	-25.2	999.9	99.9	99.9	99.9	262.0	264.1	0.5	24.3	0.0	999.9
1.2	23.7	1569.9	850.0	-6.5	-23.1	999.9	99.9	99.9	99.9	262.0	264.1	0.7	28.6	0.0	999.9
1.4	26.0	1601.9	825.0	-6.5	-21.2	999.9	99.9	99.9	99.9	262.0	264.1	0.7	29.9	0.0	999.9
1.6	28.3	2253.5	800.0	-4.2	-16.4	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
1.8	30.6	2253.5	750.0	-5.3	-4.1	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
2.0	32.9	2666.7	725.0	-6.5	-6.5	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
2.2	35.2	3090.0	700.0	-7.8	-9.1	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
2.4	37.5	3377.2	675.0	-9.1	-10.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
2.6	40.0	3377.2	650.0	-11.6	-11.6	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
2.8	42.3	3863.4	625.0	-13.0	-13.0	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
3.0	44.6	3863.4	4275.5	-14.4	-14.4	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
3.2	46.9	5268.1	525.0	-15.7	-15.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
3.4	49.2	5268.1	500.0	-16.8	-16.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
3.6	51.5	5268.1	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
3.8	53.8	4936.2	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
4.0	56.1	4936.2	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
4.2	58.4	4936.2	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
4.4	60.7	5268.1	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
4.6	63.0	5268.1	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
4.8	65.3	5268.1	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
5.0	67.6	5268.1	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
5.2	70.0	5268.1	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
5.4	72.3	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
5.6	74.6	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
5.8	77.0	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
6.0	79.3	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
6.2	81.6	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
6.4	83.9	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
6.6	86.2	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
6.8	88.5	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
7.0	90.8	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
7.2	93.1	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
7.4	95.4	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
7.6	97.7	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
7.8	100.0	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
8.0	102.3	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
8.2	104.6	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
8.4	106.9	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
8.6	109.2	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
8.8	111.5	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
9.0	113.8	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
9.2	116.1	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
9.4	118.4	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
9.6	120.7	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
9.8	123.0	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
10.0	125.3	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
10.2	127.6	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
10.4	130.0	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
10.6	132.3	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
10.8	134.6	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
11.0	136.9	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
11.2	139.2	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
11.4	141.5	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
11.6	143.8	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
11.8	146.1	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
12.0	148.4	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
12.2	150.7	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
12.4	153.0	7261.9	425.0	-34.8	-34.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
12.6	155.3	7261.9	400.0	-28.3	-31.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
12.8	157.6	7261.9	375.0	-30.3	-30.3	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
13.0	160.0	7261.9	350.0	-34.7	-34.7	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
13.2	162.3	7261.9	475.0	-21.9	-24.9	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
13.4	164.6	7261.9	450.0	-23.1	-33.8	999.9	99.9	99.9	99.9	262.0	264.1	1.3	37.8	0.0	999.9
13.6	166.9	7261.9	425.0												

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 6  
AUSTIN, TEXAS

FEBRUARY 1982

- BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
- BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
- BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG
- BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 9  
HEWITT, TEXAS

6 FEBRUARY 1982  
1713 GMT

TIME MIN	CHCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	POT T DG K	MR TO GM/KG	RH PCT	AZ DG	ANGLE DEG
00-1	224	5	1016.0	100.0	-3.4	909.9	99.9	99.9	99.9	268.5	268.5	1.3	99.9	99.9	99.9
00-2	225	5	975.0	-3.1	909.9	99.9	99.9	99.9	270.1	270.1	1.3	99.9	99.9	99.9	
00-3	226	5	950.0	-2.6	909.9	99.9	99.9	99.9	272.5	272.5	1.3	99.9	99.9	99.9	
00-4	227	5	925.0	-2.1	909.9	99.9	99.9	99.9	275.0	275.0	1.3	99.9	99.9	99.9	
00-5	228	5	900.0	-1.6	909.9	99.9	99.9	99.9	277.7	277.7	1.3	99.9	99.9	99.9	
00-6	229	5	875.0	-1.1	909.9	99.9	99.9	99.9	280.4	280.4	1.3	99.9	99.9	99.9	
00-7	230	5	850.0	-0.6	909.9	99.9	99.9	99.9	283.2	283.2	1.3	99.9	99.9	99.9	
00-8	231	5	825.0	0.1	909.9	99.9	99.9	99.9	286.3	286.3	1.3	99.9	99.9	99.9	
00-9	232	5	800.0	0.6	909.9	99.9	99.9	99.9	291.1	291.1	1.3	99.9	99.9	99.9	
00-10	233	5	775.0	1.1	909.9	99.9	99.9	99.9	294.1	294.1	1.3	99.9	99.9	99.9	
00-11	234	5	750.0	1.6	909.9	99.9	99.9	99.9	299.9	299.9	1.3	99.9	99.9	99.9	
00-12	235	5	725.0	2.1	909.9	99.9	99.9	99.9	303.6	303.6	1.3	99.9	99.9	99.9	
00-13	236	5	700.0	2.6	909.9	99.9	99.9	99.9	307.5	307.5	1.3	99.9	99.9	99.9	
00-14	237	5	675.0	3.1	909.9	99.9	99.9	99.9	310.5	310.5	1.3	99.9	99.9	99.9	
00-15	238	5	650.0	3.6	909.9	99.9	99.9	99.9	313.5	313.5	1.3	99.9	99.9	99.9	
00-16	239	5	625.0	4.1	909.9	99.9	99.9	99.9	317.5	317.5	1.3	99.9	99.9	99.9	
00-17	240	5	600.0	4.6	909.9	99.9	99.9	99.9	321.3	321.3	1.3	99.9	99.9	99.9	
00-18	241	5	575.0	5.1	909.9	99.9	99.9	99.9	325.2	325.2	1.3	99.9	99.9	99.9	
00-19	242	5	550.0	5.6	909.9	99.9	99.9	99.9	329.2	329.2	1.3	99.9	99.9	99.9	
00-20	243	5	525.0	6.1	909.9	99.9	99.9	99.9	333.1	333.1	1.3	99.9	99.9	99.9	
00-21	244	5	500.0	6.6	909.9	99.9	99.9	99.9	337.0	337.0	1.3	99.9	99.9	99.9	
00-22	245	5	475.0	7.1	909.9	99.9	99.9	99.9	340.9	340.9	1.3	99.9	99.9	99.9	
00-23	246	5	450.0	7.6	909.9	99.9	99.9	99.9	344.8	344.8	1.3	99.9	99.9	99.9	
00-24	247	5	425.0	8.1	909.9	99.9	99.9	99.9	348.7	348.7	1.3	99.9	99.9	99.9	
00-25	248	5	400.0	8.6	909.9	99.9	99.9	99.9	352.6	352.6	1.3	99.9	99.9	99.9	
00-26	249	5	375.0	9.1	909.9	99.9	99.9	99.9	356.5	356.5	1.3	99.9	99.9	99.9	
00-27	250	5	350.0	9.6	909.9	99.9	99.9	99.9	360.4	360.4	1.3	99.9	99.9	99.9	
00-28	251	5	325.0	10.1	909.9	99.9	99.9	99.9	364.3	364.3	1.3	99.9	99.9	99.9	
00-29	252	5	300.0	10.6	909.9	99.9	99.9	99.9	368.2	368.2	1.3	99.9	99.9	99.9	
00-30	253	5	275.0	11.1	909.9	99.9	99.9	99.9	372.1	372.1	1.3	99.9	99.9	99.9	
00-31	254	5	250.0	11.6	909.9	99.9	99.9	99.9	376.0	376.0	1.3	99.9	99.9	99.9	
00-32	255	5	225.0	12.1	909.9	99.9	99.9	99.9	380.9	380.9	1.3	99.9	99.9	99.9	
00-33	256	5	200.0	12.6	909.9	99.9	99.9	99.9	384.8	384.8	1.3	99.9	99.9	99.9	
00-34	257	5	175.0	13.1	909.9	99.9	99.9	99.9	388.7	388.7	1.3	99.9	99.9	99.9	
00-35	258	5	150.0	13.6	909.9	99.9	99.9	99.9	392.6	392.6	1.3	99.9	99.9	99.9	
00-36	259	5	125.0	14.1	909.9	99.9	99.9	99.9	396.5	396.5	1.3	99.9	99.9	99.9	
00-37	260	5	100.0	14.6	909.9	99.9	99.9	99.9	400.4	400.4	1.3	99.9	99.9	99.9	
00-38	261	5	75.0	15.1	909.9	99.9	99.9	99.9	404.3	404.3	1.3	99.9	99.9	99.9	
00-39	262	5	50.0	15.6	909.9	99.9	99.9	99.9	408.2	408.2	1.3	99.9	99.9	99.9	
00-40	263	5	25.0	16.1	909.9	99.9	99.9	99.9	412.1	412.1	1.3	99.9	99.9	99.9	
00-41	264	5	0.0	16.6	909.9	99.9	99.9	99.9	416.0	416.0	1.3	99.9	99.9	99.9	
00-42	265	5	0.0	17.1	909.9	99.9	99.9	99.9	420.0	420.0	1.3	99.9	99.9	99.9	
00-43	266	5	0.0	17.6	909.9	99.9	99.9	99.9	423.9	423.9	1.3	99.9	99.9	99.9	
00-44	267	5	0.0	18.1	909.9	99.9	99.9	99.9	427.8	427.8	1.3	99.9	99.9	99.9	
00-45	268	5	0.0	18.6	909.9	99.9	99.9	99.9	431.7	431.7	1.3	99.9	99.9	99.9	
00-46	269	5	0.0	19.1	909.9	99.9	99.9	99.9	435.6	435.6	1.3	99.9	99.9	99.9	
00-47	270	5	0.0	19.6	909.9	99.9	99.9	99.9	439.5	439.5	1.3	99.9	99.9	99.9	
00-48	271	5	0.0	20.1	909.9	99.9	99.9	99.9	443.4	443.4	1.3	99.9	99.9	99.9	
00-49	272	5	0.0	20.6	909.9	99.9	99.9	99.9	447.3	447.3	1.3	99.9	99.9	99.9	
00-50	273	5	0.0	21.1	909.9	99.9	99.9	99.9	451.2	451.2	1.3	99.9	99.9	99.9	
00-51	274	5	0.0	21.6	909.9	99.9	99.9	99.9	455.1	455.1	1.3	99.9	99.9	99.9	
00-52	275	5	0.0	22.1	909.9	99.9	99.9	99.9	459.0	459.0	1.3	99.9	99.9	99.9	
00-53	276	5	0.0	22.6	909.9	99.9	99.9	99.9	462.9	462.9	1.3	99.9	99.9	99.9	
00-54	277	5	0.0	23.1	909.9	99.9	99.9	99.9	466.8	466.8	1.3	99.9	99.9	99.9	
00-55	278	5	0.0	23.6	909.9	99.9	99.9	99.9	470.7	470.7	1.3	99.9	99.9	99.9	
00-56	279	5	0.0	24.1	909.9	99.9	99.9	99.9	474.6	474.6	1.3	99.9	99.9	99.9	
00-57	280	5	0.0	24.6	909.9	99.9	99.9	99.9	478.5	478.5	1.3	99.9	99.9	99.9	
00-58	281	5	0.0	25.1	909.9	99.9	99.9	99.9	482.4	482.4	1.3	99.9	99.9	99.9	
00-59	282	5	0.0	25.6	909.9	99.9	99.9	99.9	486.3	486.3	1.3	99.9	99.9	99.9	
00-60	283	5	0.0	26.1	909.9	99.9	99.9	99.9	490.2	490.2	1.3	99.9	99.9	99.9	
00-61	284	5	0.0	26.6	909.9	99.9	99.9	99.9	494.1	494.1	1.3	99.9	99.9	99.9	
00-62	285	5	0.0	27.1	909.9	99.9	99.9	99.9	498.0	498.0	1.3	99.9	99.9	99.9	
00-63	286	5	0.0	27.6	909.9	99.9	99.9	99.9	501.9	501.9	1.3	99.9	99.9	99.9	
00-64	287	5	0.0	28.1	909.9	99.9	99.9	99.9	505.8	505.8	1.3	99.9	99.9	99.9	
00-65	288	5	0.0	28.6	909.9	99.9	99.9	99.9	509.7	509.7	1.3	99.9	99.9	99.9	
00-66	289	5	0.0	29.1	909.9	99.9	99.9	99.9	513.6	513.6	1.3	99.9	99.9	99.9	
00-67	290	5	0.0	29.6	909.9	99.9	99.9	99.9	517.5	517.5	1.3	99.9	99.9	99.9	
00-68	291	5	0.0	30.1	909.9	99.9	99.9	99.9	521.4	521.4	1.3	99.9	99.9	99.9	
00-69	292	5	0.0	30.6	909.9	99.9	99.9	99.9	525.3	525.3	1.3	99.9	99.9	99.9	
00-70	293	5	0.0	31.1	909.9	99.9	99.9	99.9	529.2	529.2	1.3	99.9	99.9	99.9	
00-71	294	5	0.0	31.6	909.9	99.9	99.9	99.9	533.1	533.1	1.3	99.9	99.9	99.9	
00-72	295	5	0.0	32.1	909.9	99.9	99.9	99.9	537.0	537.0	1.3	99.9	99.9	99.9	
00-73	296	5	0.0	32.6	909.9	99.9	99.9	99.9	540.9	540.9	1.3	99.9	99.9	99.9	
00-74	297	5	0.0	33.1	909.9	99.9	99.9	99.9	544.8	544.8	1.3	99.9	99.9	99.9	
00-75	298	5	0.0	33.6	909.9	99.9	99.9	99.9	548.7	548.7	1.3	99.9	99.9	99.9	
00-76	299	5	0.0	34.1	909.9	99.9	99.9	99.9	552.6	552.6	1.3	99.9	99.9	99.9	
00-77	300	5	0.0	34.6	909.9	99.9	99.9	99.9	556.5	556.5	1.3	99.9	99.9		



STATION NO. 10  
BENARD, TEXAS

- BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
- BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
- BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG
- BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL DATA IS  
OF POOR QUALITY

STATION NO. 12  
COLLEGE STATION, TEXAS

6 FEBRUARY 1962

2338 GMT

TIME MIN	CRNTY GPM	HEIGHT GPM	PRES MM	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	E POT DG K	POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
00-1-2234450000000000	4457	110325	1023	7	0	-6	99	99	99	277	1	2	60	0	999 9 999
00-1-2234450000000000	268	0	1000	6	-1 90.0	99	99	99	99	271	5	999 9	999 9	999 9	999 9 999
00-1-2234450000000000	466	0	975	5	-3 30.0	99	99	99	99	271	8	999 9	999 9	999 9	999 9 999
00-1-2234450000000000	671	2	950	0	-5 10.0	99	99	99	99	272	0	999 9	999 9	999 9	999 9 999
00-1-2234450000000000	660	1	925	0	-6 6.0	99	99	99	99	272	6	999 9	999 9	999 9	999 9 999
00-1-2234450000000000	1095	7	900	0	-12 4.0	99	99	99	99	285	5	290	6	17	33 7
00-1-2234450000000000	1321	0	875	2	-1 2 9.5	99	99	99	99	290	7	297	8	2 6	4 1 5
00-1-2234450000000000	1556	1	850	1	-6 7.0	99	99	99	99	295	0	301	9	3 4	33 9
00-1-2234450000000000	1800	0	825	0	-1 1 2.0	99	99	99	99	295	-1	309	3	4 4	61 1
00-1-2234450000000000	2052	0	800	0	-4 0.0	99	99	99	99	305	4	313	2	2 3	48 6
00-1-2234450000000000	2312	0	775	0	-10 2.0	99	99	99	99	305	4	313	2	2 3	26 0
00-1-2234450000000000	2583	4	750	0	-11 7.0	99	99	99	99	307	5	314	0	2 4	3 24 3
00-1-2234450000000000	2863	0	725	0	-1 6 3.0	99	99	99	99	308	7	317	2	2 8	38 1
00-1-2234450000000000	3150	0	700	0	-3 4.0	99	99	99	99	309	7	318	2	2 8	38 1
00-1-2234450000000000	3447	0	675	2	-3 0.0	99	99	99	99	310	3	319	3	3 0	46 1
00-1-2234450000000000	377	0	650	4	-1 9.0	99	99	99	99	311	4	320	2	2 9	50 6
00-1-2234450000000000	4066	0	625	0	-1 0 2.0	99	99	99	99	320	2	320	2	2 9	62 8
00-1-2234450000000000	4300	0	600	0	-1 4 2.0	99	99	99	99	321	3	321	3	2 3	79 1
00-1-2234450000000000	4725	0	575	0	-1 3 2.0	99	99	99	99	321	3	321	7	2 5	69 3
00-1-2234450000000000	5071	2	550	0	-1 4 0.0	99	99	99	99	321	7	322	2	2 5	81 6
00-1-2234450000000000	5430	0	525	0	-1 5 2.0	99	99	99	99	322	7	323	7	2 3	86 6
00-1-2234450000000000	5803	0	500	0	-1 3 7.0	99	99	99	99	323	7	323	7	2 3	86 6
00-1-2234450000000000	6192	0	475	0	-1 6 2.0	99	99	99	99	324	3	324	3	2 0	88 1
00-1-2234450000000000	6597	0	450	0	-1 8 4.0	99	99	99	99	324	6	324	6	1 3	85 6
00-1-2234450000000000	7019	0	425	0	-2 2 4.0	99	99	99	99	324	6	324	6	1 3	84 3
00-1-2234450000000000	7462	0	400	0	-2 5 8.0	99	99	99	99	324	5	324	5	0 8	49 5
00-1-2234450000000000	7926	0	375	0	-2 7 9.0	99	99	99	99	324	9	326	7	0 5	49 5
00-1-2234450000000000	8426	0	350	0	-3 0 9.0	99	99	99	99	327	2	328	4	0 4	42 7
00-1-2234450000000000	8842	0	325	0	-3 4 8.0	99	99	99	99	328	7	329	3	0 2	39 8
00-1-2234450000000000	9045	0	300	0	-4 0 7.0	99	99	99	99	328	9	329	9	0 2	99 9
00-1-2234450000000000	10063	0	275	0	-4 3 7.0	99	99	99	99	332	0	999	999	999	999 9 999
00-1-2234450000000000	10719	0	250	0	-4 7 9.0	99	99	99	99	332	0	999	999	999	999 9 999
00-1-2234450000000000	11410	0	225	0	-5 1 4.0	99	99	99	99	339	6	347	8	0 4	99 9
00-1-2234450000000000	12168	0	200	0	-5 3 7.0	99	99	99	99	347	8	358	3	0 4	99 9
00-1-2234450000000000	13022	0	175	0	-5 5 5.0	99	99	99	99	358	3	358	3	0 4	99 9
00-1-2234450000000000	1332	0	150	0	-5 9 5.0	99	99	99	99	999	999	999	999	999	999 9 999
00-1-2234450000000000	1335	0	125	0	-6 5 5.0	99	99	99	99	999	999	999	999	999	999 9 999
00-1-2234450000000000	1337	0	100	0	-6 9 5.0	99	99	99	99	999	999	999	999	999	999 9 999
00-1-2234450000000000	1339	0	75	0	-6 9 5.0	99	99	99	99	999	999	999	999	999	999 9 999
00-1-2234450000000000	1342	0	50	0	-6 9 5.0	99	99	99	99	999	999	999	999	999	999 9 999
00-1-2234450000000000	1345	0	25	0	-6 9 5.0	99	99	99	99	999	999	999	999	999	999 9 999

• BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
• BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
• BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
• BY TEMP MEANS MISSING DATA STATION EXCEEDS 5 CONTACTS